Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	SB	1,101, 192,246	Var	1	66

STATE OF CALIFORNIA

DEPARTMENT OF TRANSPORTATION

ACSTP-X083(018)E

PROJECT PLANS FOR CONSTRUCTION ON

STATE HIGHWAY

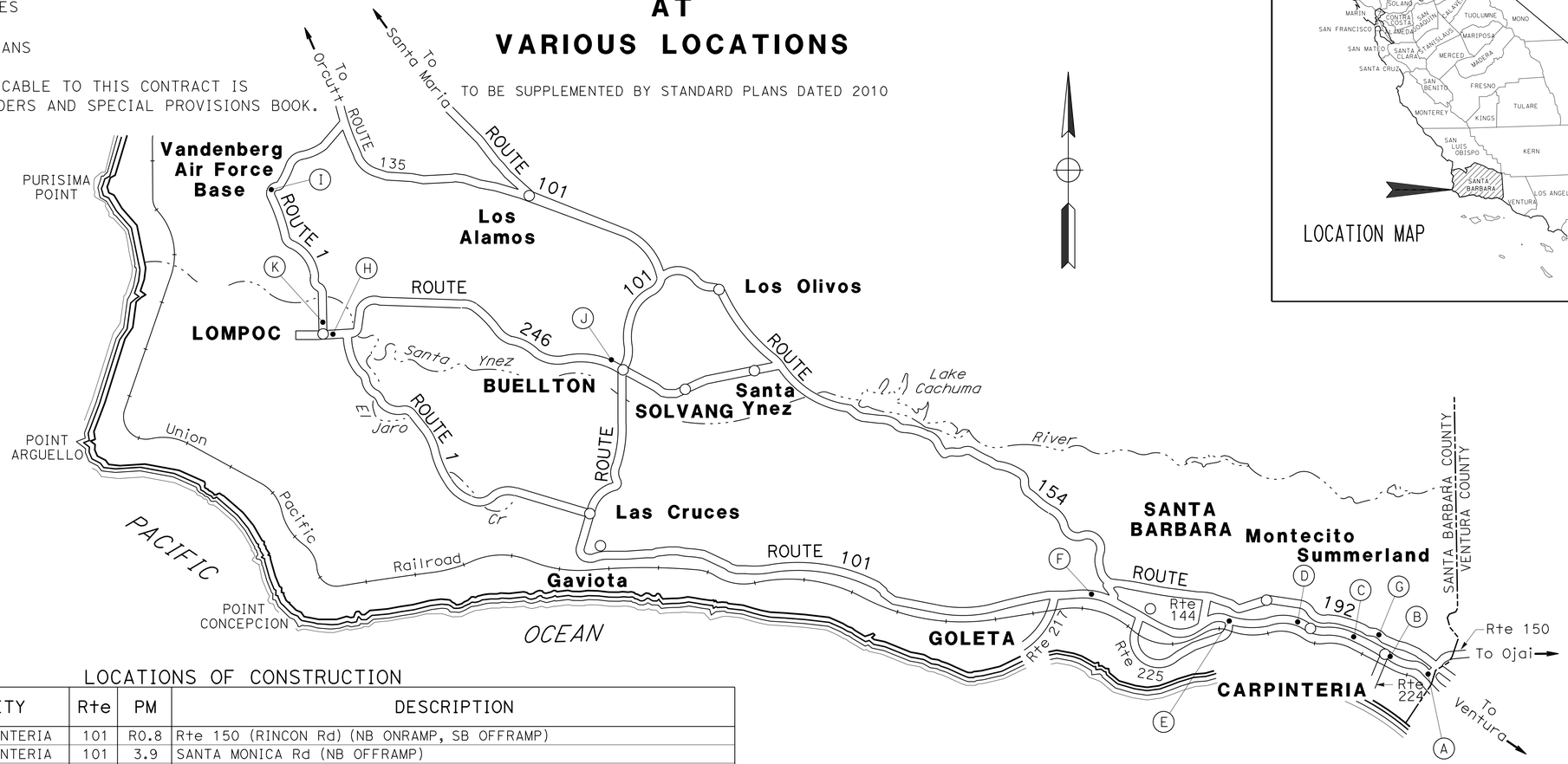
IN SANTA BARBARA COUNTY AT VARIOUS LOCATIONS

INDEX OF PLANS

SHEET No.	DESCRIPTION
1	TITLE AND LOCATION MAP
2-24	CONSTRUCTION DETAILS
25-39	UTILITY PLANS
40-42	CONSTRUCTION AREA SIGNS
43	MOTORIST INFORMATION PLAN AND QUANTITIES
44	PAVEMENT DELINEATION QUANTITIES
45	SIGN QUANTITIES
46	SUMMARY OF QUANTITIES
47-50	ELECTRICAL PLANS
51-66	REVISED STANDARD PLANS

THE STANDARD PLANS LIST APPLICABLE TO THIS CONTRACT IS INCLUDED IN THE NOTICE TO BIDDERS AND SPECIAL PROVISIONS BOOK.

TO BE SUPPLEMENTED BY STANDARD PLANS DATED 2010



LOCATION MAP

LOCATIONS OF CONSTRUCTION

LOCATION	CURB RAMP No.	CITY	Rte	PM	DESCRIPTION
A	6-7	CARPINTERIA	101	R0.8	Rte 150 (RINCON Rd) (NB ONRAMP, SB OFFRAMP)
B	8	CARPINTERIA	101	3.9	SANTA MONICA Rd (NB OFFRAMP)
C	9-11	SUMMERLAND	101	R7.1	PADARO Ln (NB ONRAMP, SB OFFRAMP)
D	12-15	SANTA BARBARA	101	10.0	SAN YSIDRO Rd (NB ONRAMP, NB OFFRAMP, SB OFFRAMP, S JAMESON Ln)
	16	SANTA BARBARA	101	10.5	OLIVE MILL Rd & VIRGINIA Rd
	17-18	SANTA BARBARA	101	10.5	OLIVE MILL Rd (SB ONRAMP, NB OFFRAMP)
	19	SANTA BARBARA	101	10.5	OLIVE MILL Rd & VIRGINIA Rd
	20	SANTA BARBARA	101	11.0	COAST VILLAGE Rd & HERMOSILLO Rd (NB OFFRAMP)
E	21-23	SANTA BARBARA	101	R14.3	Rte 225 (CASTILLO St) & W HALEY St (NB ONRAMP)
	24-25	SANTA BARBARA	101	R14.3	Rte 225 (CASTILLO St) (SB OFFRAMP)
F	26	SANTA BARBARA	101	18.8	CALLE REAL & EL SUENO Rd (NB ONRAMP)
G	27	CARPINTERIA	192	17.4	Rte 192 & LINDEN Ave
H	28	LOMPOC	246	8.6	Rte 246 (W OCEAN Ave) & U St
	29	LOMPOC	246	8.7	Rte 246 (W OCEAN Ave) & T St
	30	LOMPOC	246	9.5	Rte 246 (W OCEAN Ave) & Rte 1 (H St)
I	31-32	LOMPOC	1	29.9	Rte 1 & W LOMPOC CASMALIA Rd
J	33	BUELLTON	246	R25.6	Rte 246 & TWIN OAK Dr
K	34	LOMPOC	1	21.0	Rte 1 (H St) & MAPLE Ave

NO SCALE

THE CONTRACTOR SHALL POSSESS THE CLASS (OR CLASSES) OF LICENSE AS SPECIFIED IN THE "NOTICE TO BIDDERS."

PROJECT ENGINEER — DATE 5-21-14
REGISTERED CIVIL ENGINEER

May 27, 2014
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — SCOTT A. SHAVER — No. 42946 — Exp. 3-31-16 — CIVIL — STATE OF CALIFORNIA

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

CONTRACT No.	05-0S0304
PROJECT ID	0500000398

PROJECT MANAGER: AMY DONATELLO
DESIGN ENGINEER: SCOTT SHAVER

LAST REVISION 05-21-14
DATE PLOTTED => 25-AUG-2014
TIME PLOTTED => 17:51

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	SB	1,101, 192,246	Var	2	66

REGISTERED CIVIL ENGINEER 5-21-14 DATE

5-27-14
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER SCOTT A. SHAVER No. 42946 Exp. 3-31-16 CIVIL STATE OF CALIFORNIA

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

NOTES:

1. FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.
2. CROSS SECTION SHOWING EXISTING PAVEMENT THICKNESS APPLIES TO ALL LOCATIONS.
3. DETAILS SHOWING MODIFIED CURB RAMPS APPLY TO ALL LOCATIONS.

LEGEND

- COLD PLANE AC Pvmt
- REMOVE SIDEWALK
- REPLACE AC SURFACING
- REMOVE AC SURFACING (ROADWAY EXCAVATION)
- DETECTABLE WARNING SURFACE
- (1) CURVE DATA No.

CURVE DATA

No.	R	Δ	T	L
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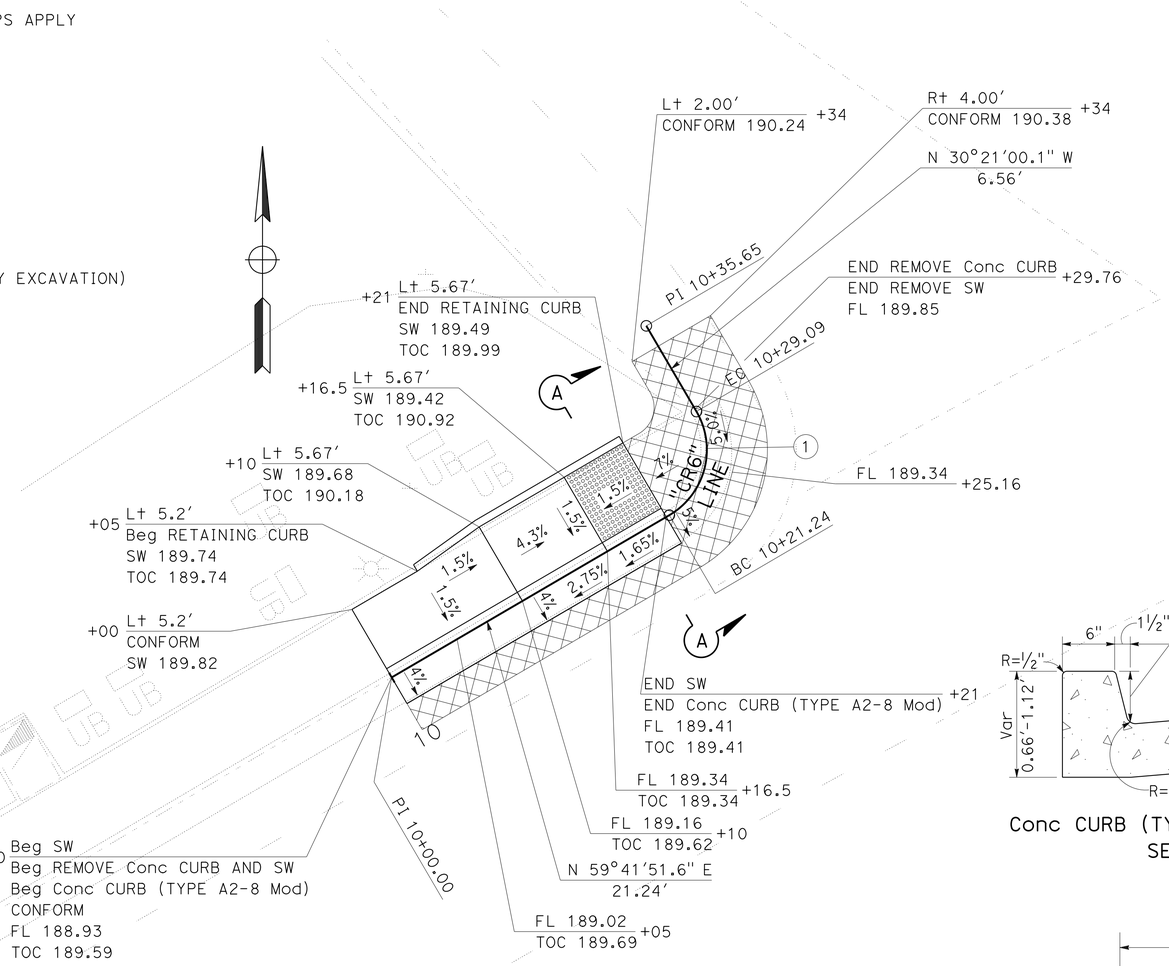
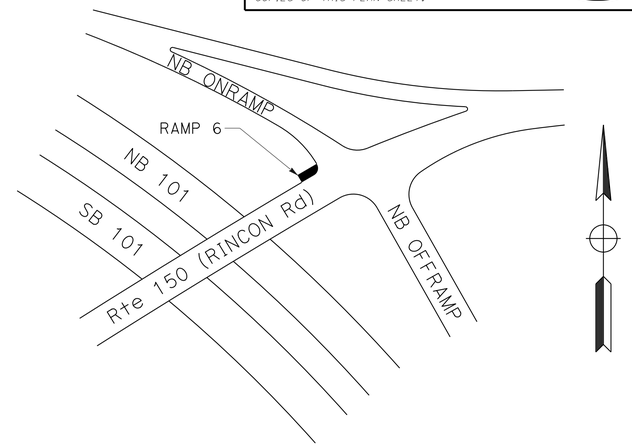
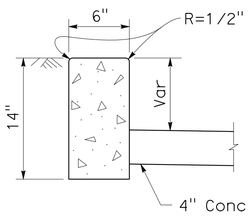
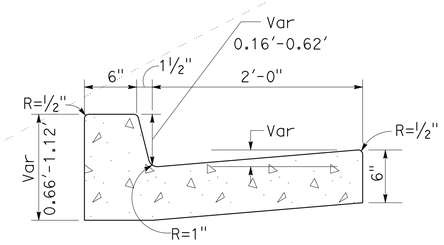




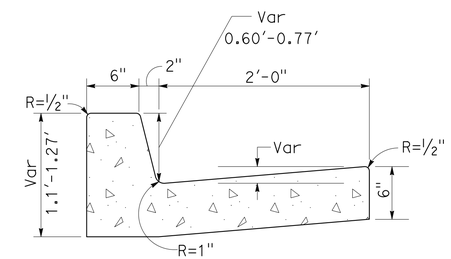
LOCATION DETAIL



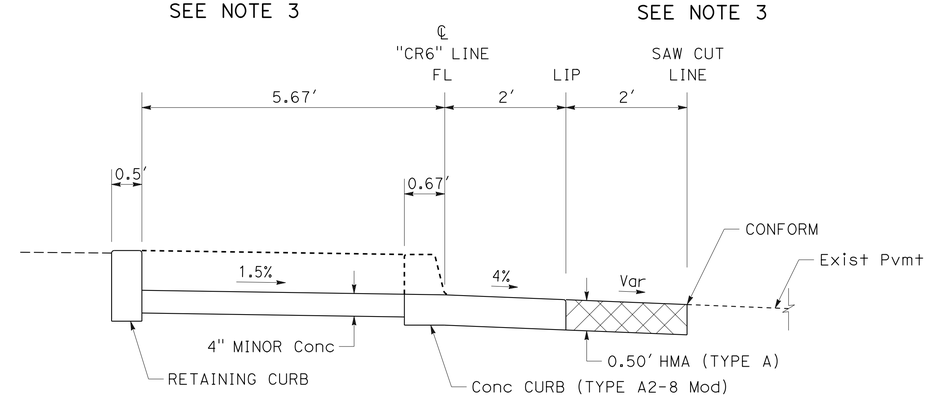
RETAINING CURB DETAIL
(CONCRETE) (Typ)



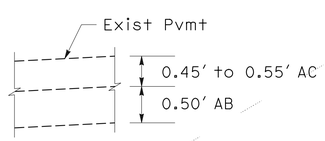
Conc CURB (TYPE A2-6 Mod) DETAIL
SEE NOTE 3



Conc CURB (TYPE A2-8 Mod) DETAIL
SEE NOTE 3



SECTION A-A



STRUCTURAL SECTION

EXISTING PAVEMENT THICKNESS

(SEE NOTE 2)

CURB RAMP No. 6, PM R0.8
BLENDED TRANSITION
Rte 101 AND Rte 150 (RINCON Rd)/NB ONRAMP
CARPINTERIA

CONSTRUCTION DETAILS

NO SCALE

C-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
06-DESIGN

FUNCTIONAL SUPERVISOR: SCOTT SHAVER
CALCULATED-DESIGNED BY: GILBERTO BACA
CHECKED BY: SCOTT SHAVER
REVISED BY
DATE REVISED

LAST REVISION 05-08-14
DATE PLOTTED => 25-AUG-2014
TIME PLOTTED => 17:51

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	SB	1,101, 192,246	Var	3	66

REGISTERED CIVIL ENGINEER 5-21-14 DATE

5-27-14
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER SCOTT A. SHAVER No. 42946 Exp. 3-31-16 CIVIL STATE OF CALIFORNIA

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

NOTE:

FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.

CURVE DATA

No.	R	Δ	T	L
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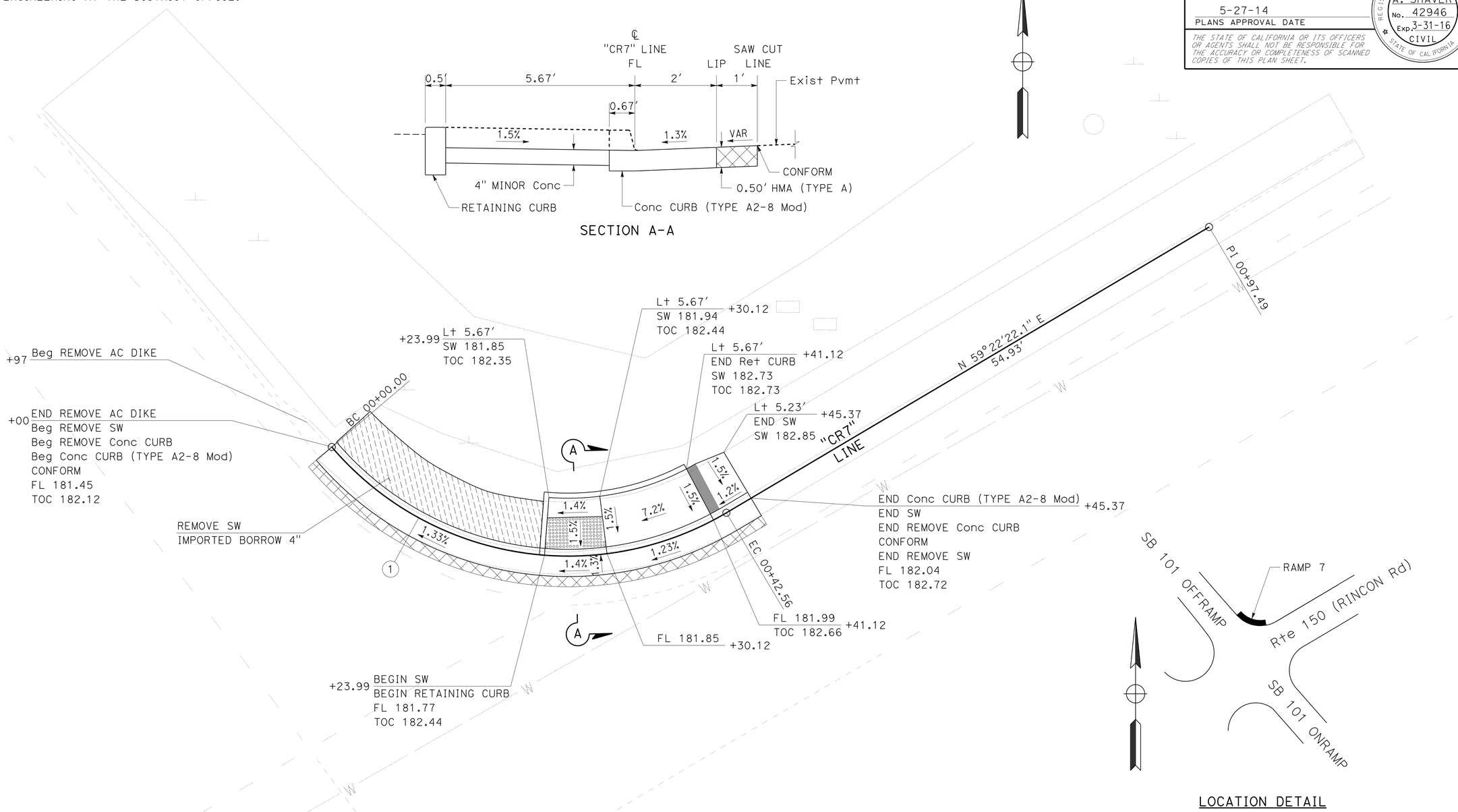
SECTION A-A



LOCATION DETAIL

CURB RAMP No. 7, PM R0.8
CASE C Mod
Rte 101 AND Rte 150 (RINCON Rd)/SB OFFRAMP
CARPINTERIA

CONSTRUCTION DETAILS

NO SCALE

C-2

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
06-DESIGN

FUNCTIONAL SUPERVISOR: SCOTT SHAVER
CALCULATED-DESIGNED BY: WAFAA SIQUEIROS
CHECKED BY: SCOTT SHAVER
REVISED BY
DATE REVISED

LAST REVISION 04-10-14
DATE PLOTTED => 25-AUG-2014
TIME PLOTTED => 17:51

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	SB	1,101, 192,246	Var	4	66

REGISTERED CIVIL ENGINEER 5-21-14 DATE

5-27-14
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER SCOTT A. SHAVER No. 42946 Exp. 3-31-16 CIVIL STATE OF CALIFORNIA

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NOTE:

FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.

CURVE DATA

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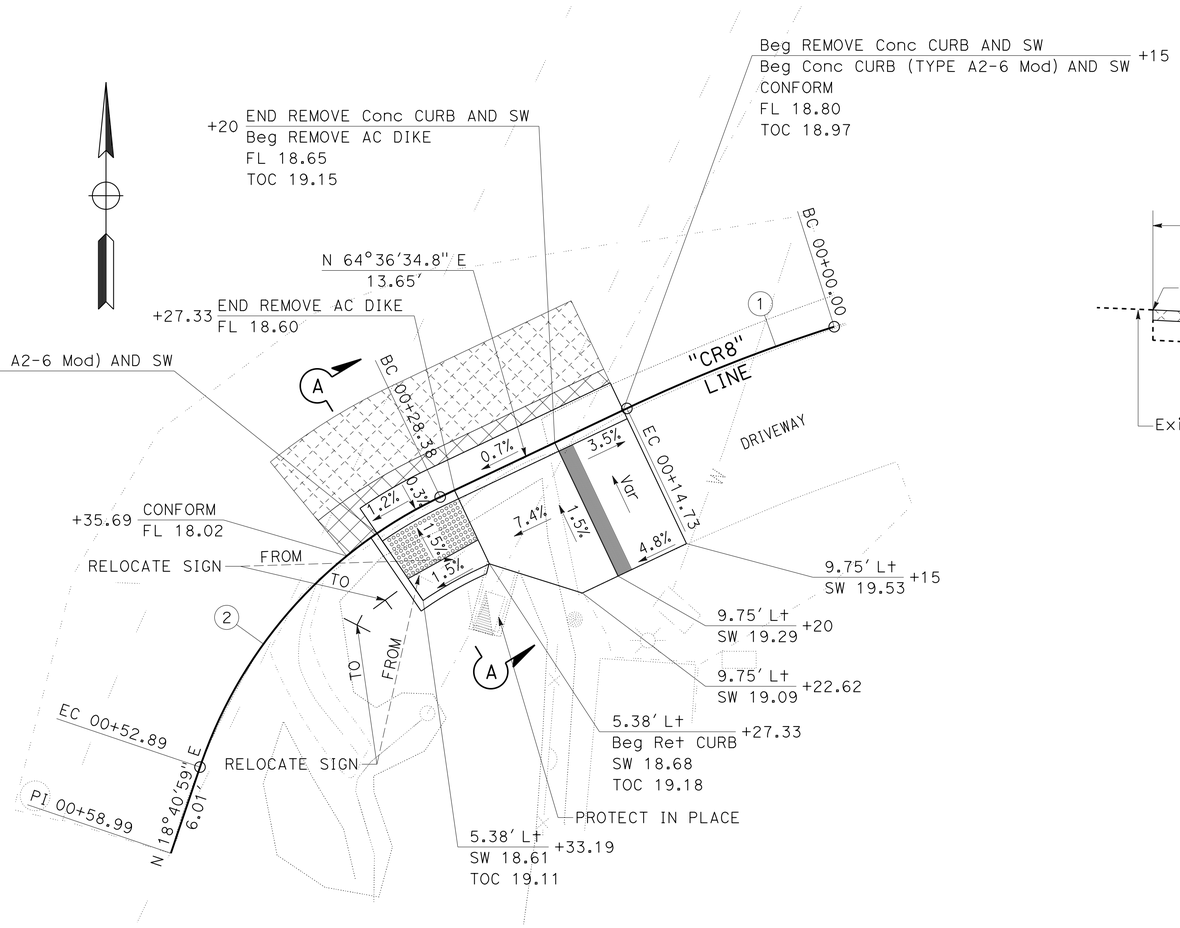
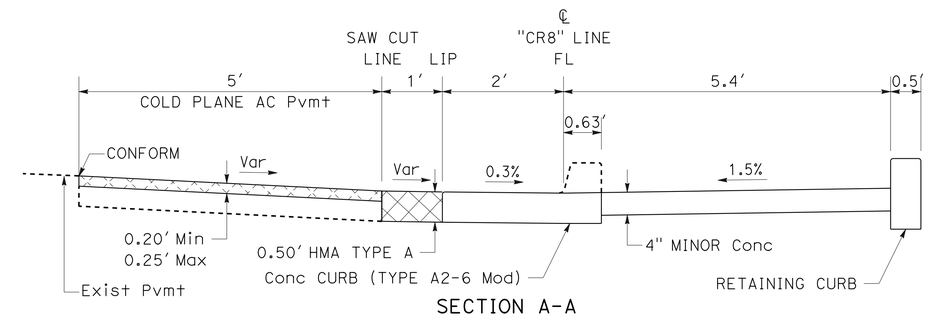
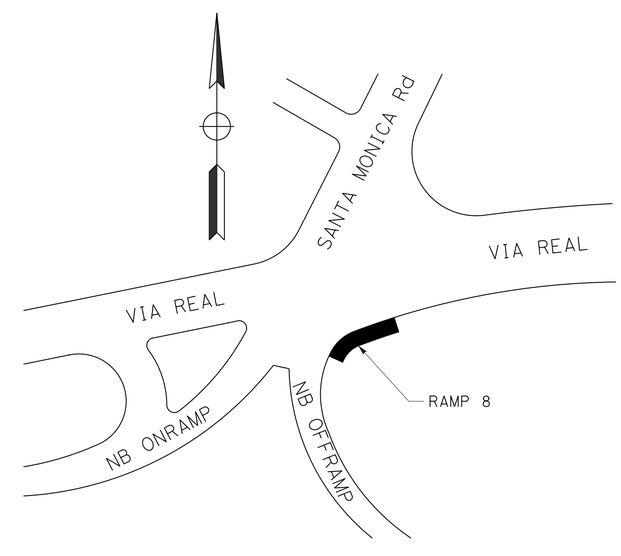




SECTION A-A



LOCATION DETAIL

CURB RAMP No. 8, PM 3.9
CASE C Mod
Rte 101 AND SANTA MONICA Rd/NB OFF-RAMP
CARPINTERIA

CONSTRUCTION DETAILS

NO SCALE

C-3

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
06-DESIGN

FUNCTIONAL SUPERVISOR: SCOTT SHAVER
CALCULATED-DESIGNED BY: WAFAA SIQUEIROS
CHECKED BY: SCOTT SHAVER
REVISED BY
DATE REVISED

LAST REVISION 05-21-14
DATE PLOTTED => 25-AUG-2014
TIME PLOTTED => 17:51

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	SB	1,101, 192,246	Var	5	66

REGISTERED CIVIL ENGINEER 5-21-14 DATE

5-27-14
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER SCOTT A. SHAVER No. 42946 Exp. 3-31-16 CIVIL STATE OF CALIFORNIA

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NOTE:

FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.

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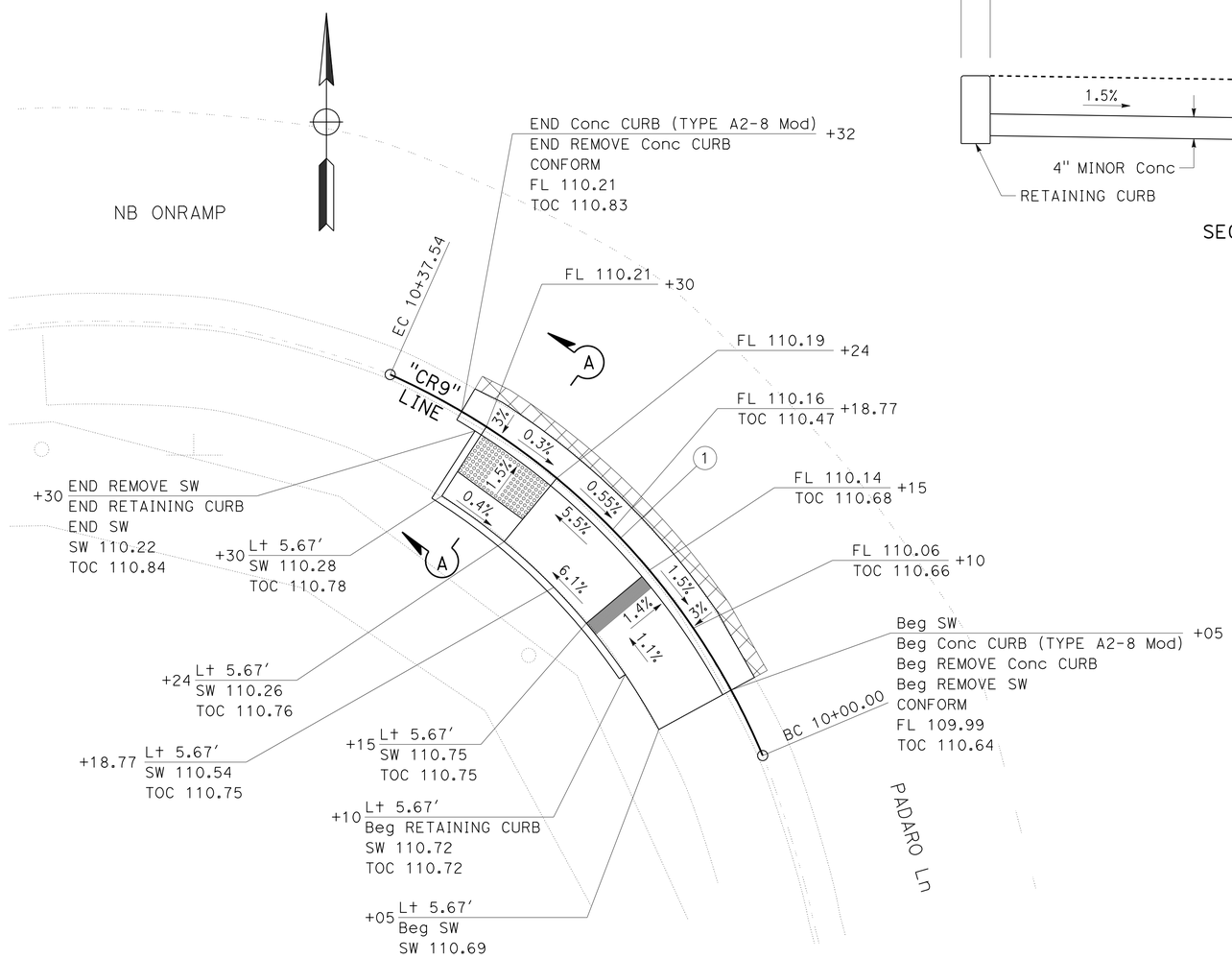
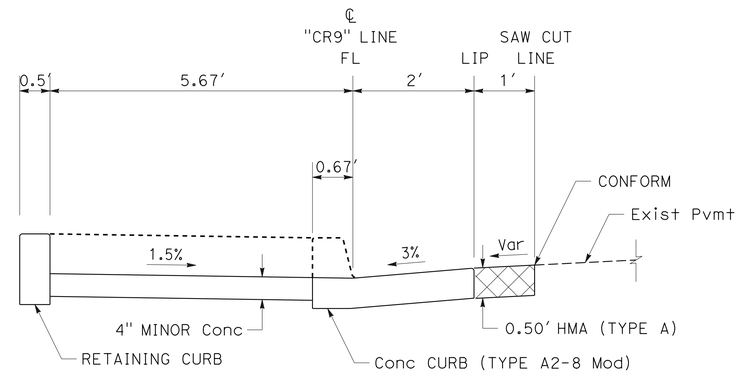
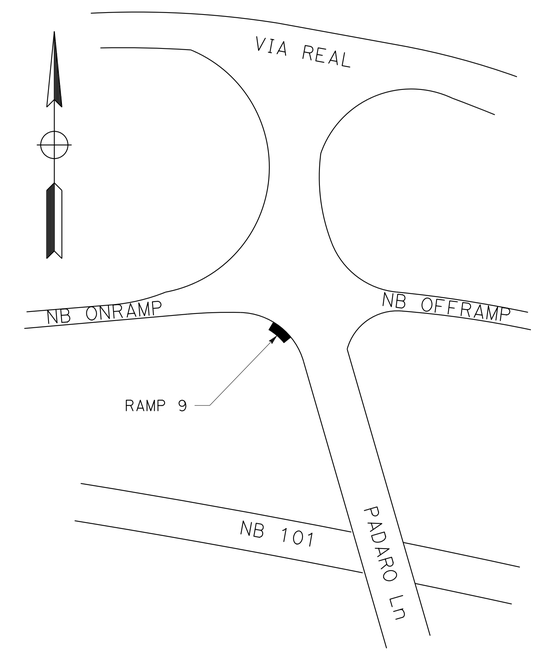




SECTION A-A



LOCATION DETAIL

CURB RAMP No. 9, PM R7.1
CASE C Mod
ROUTE 101 AND PADARO Ln/NB ONRAMP
SUMMERLAND (SW CORNER)

CONSTRUCTION DETAILS

NO SCALE

C-4

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
06-DESIGN

FUNCTIONAL SUPERVISOR: SCOTT SHAVER
CALCULATED-DESIGNED BY: GILBERTO BACA
CHECKED BY: SCOTT SHAVER
REVISED BY
DATE REVISED

LAST REVISION 03-21-14 | DATE PLOTTED => 25-AUG-2014 | TIME PLOTTED => 17:51

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	SB	1,101, 192,246	Var	6	66

REGISTERED CIVIL ENGINEER 5-21-14 DATE

5-27-14
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER SCOTT A. SHAVER No. 42946 Exp. 3-31-16 CIVIL STATE OF CALIFORNIA

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NOTE:

FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.

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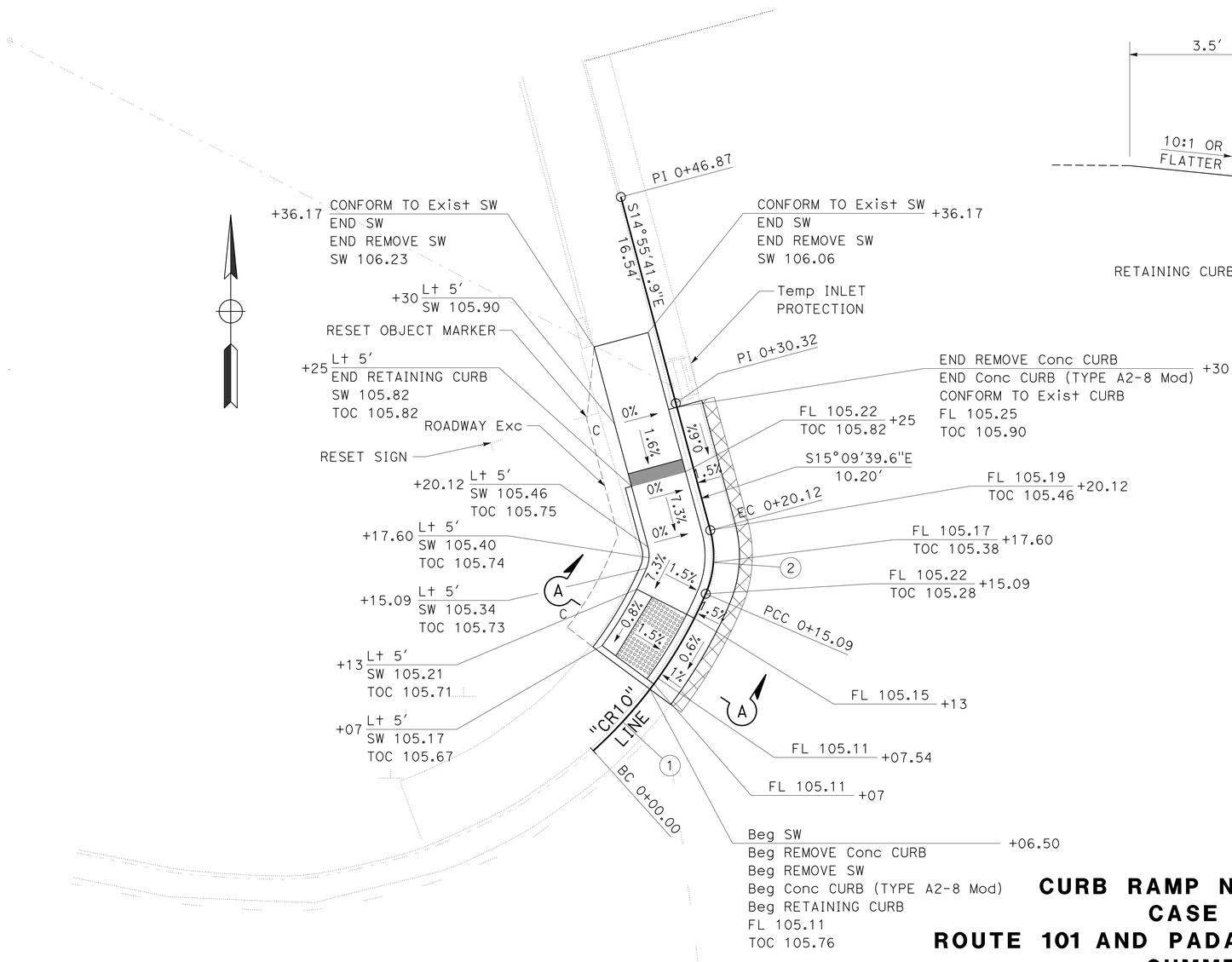
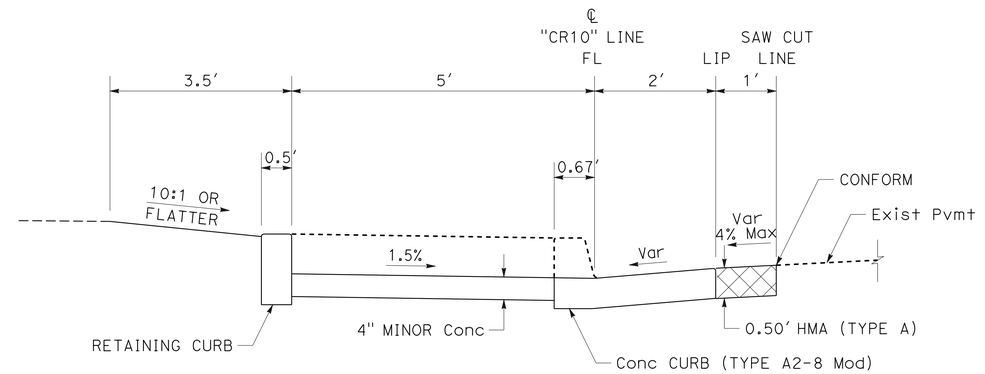
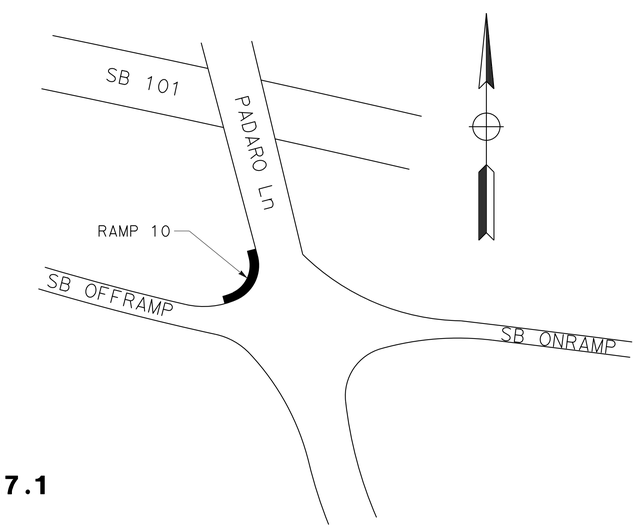




SECTION A-A



LOCATION DETAIL

CURB RAMP No. 10, PM R7.1
CASE C Mod
ROUTE 101 AND PADARO Ln/SB OFF-RAMP
SUMMERLAND

CONSTRUCTION DETAILS

NO SCALE

C-5

REVISED BY | DATE REVISED
GILBERTO BACA | SCOTT SHAVER
CALCULATED-DESIGNED BY | CHECKED BY
FUNCTIONAL SUPERVISOR: SCOTT SHAVER
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
06-DESIGN

LAST REVISION 05-08-14 | DATE PLOTTED => 25-AUG-2014 | TIME PLOTTED => 17:52

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	SB	1,101, 192,246	Var	7	66

REGISTERED CIVIL ENGINEER 5-21-14 DATE

5-27-14
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER SCOTT A. SHAVER No. 42946 Exp. 3-31-16 CIVIL STATE OF CALIFORNIA

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NOTE:

FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.

CURVE DATA

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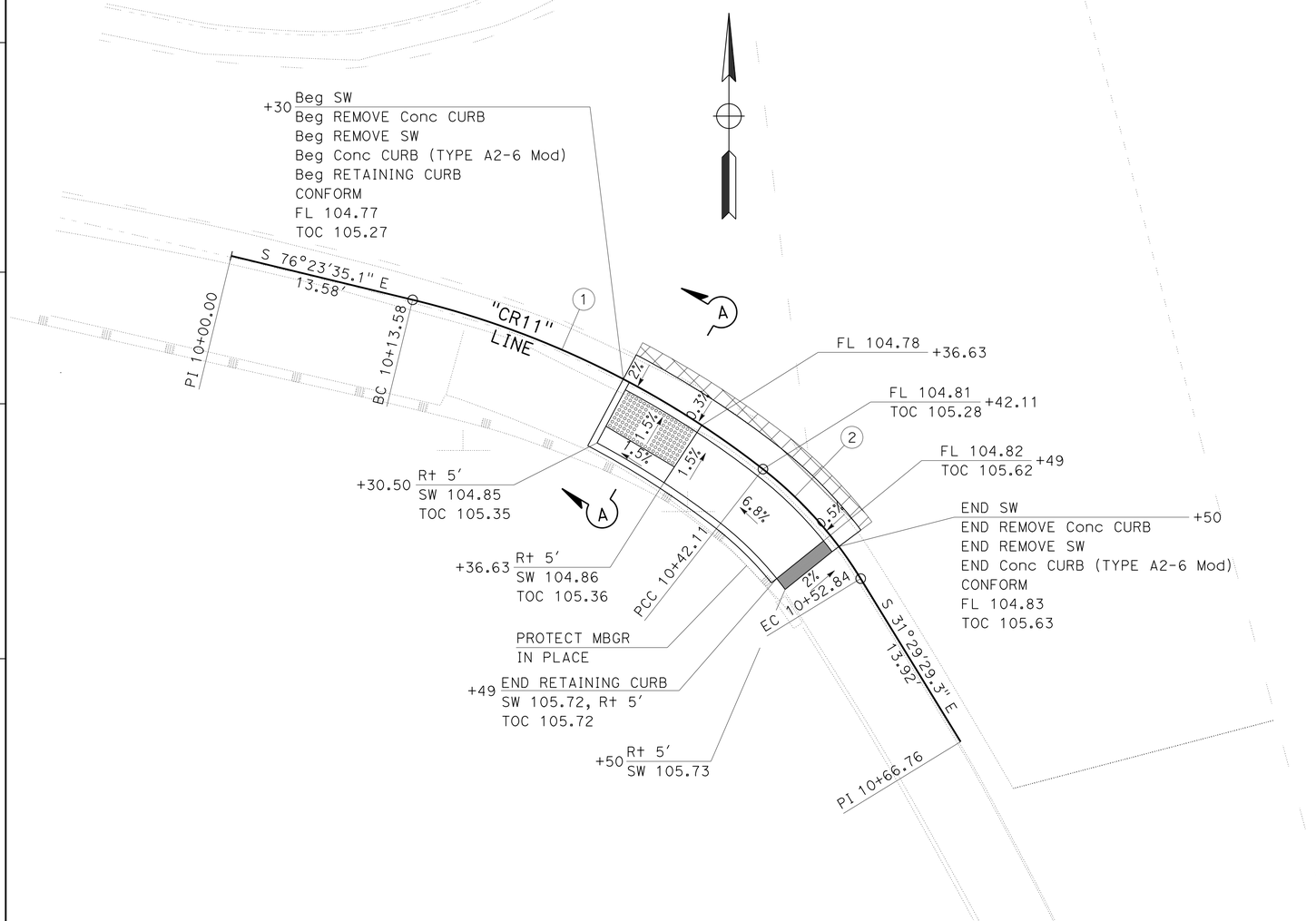
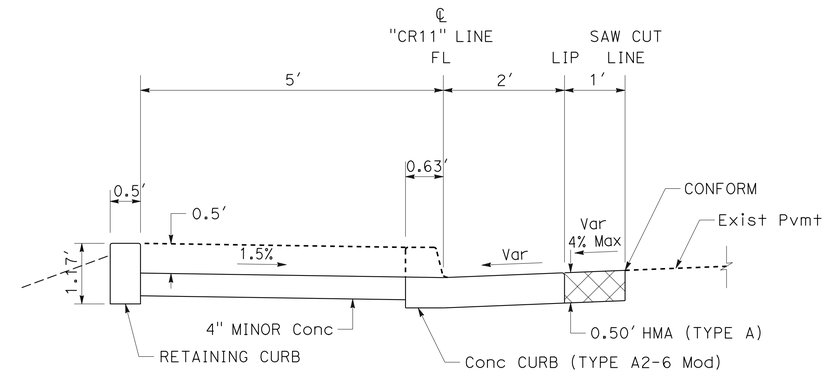
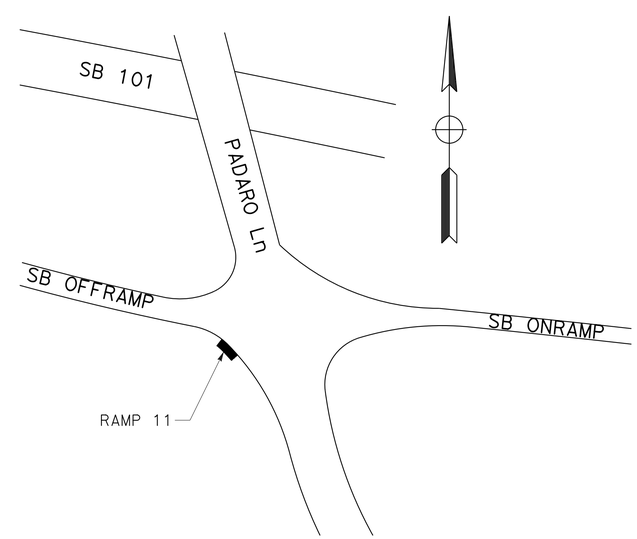




SECTION A-A



LOCATION DETAIL

CURB RAMP No. 11, PM R7.1
CASE C
ROUTE 101 AND PADARO Ln/SB OFF-RAMP
SUMMERLAND

CONSTRUCTION DETAILS

NO SCALE

C-6

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
06-DESIGN

FUNCTIONAL SUPERVISOR: SCOTT SHAVER
CALCULATED-DESIGNED BY: GILBERTO BACA
CHECKED BY: SCOTT SHAVER
REVISED BY
DATE REVISED

LAST REVISION 04-10-14 DATE PLOTTED => 25-AUG-2014 TIME PLOTTED => 17:52

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	SB	1,101, 192,246	Var	8	66

REGISTERED CIVIL ENGINEER 5-21-14 DATE

5-27-14
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER SCOTT A. SHAVER No. 42946 Exp. 3-31-16 CIVIL STATE OF CALIFORNIA

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NOTE:

FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.

CURVE DATA

No.	R	Δ	T	L
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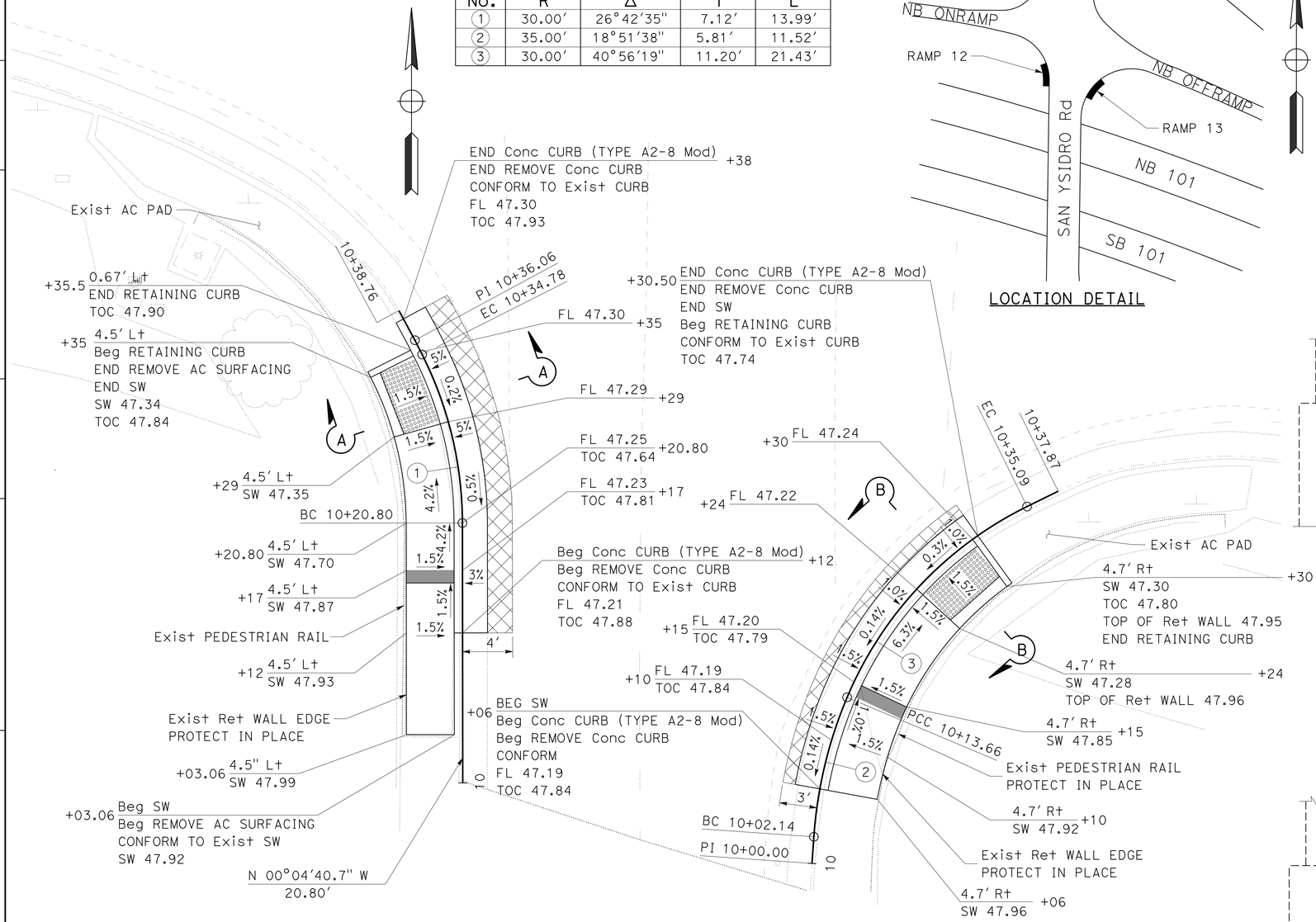
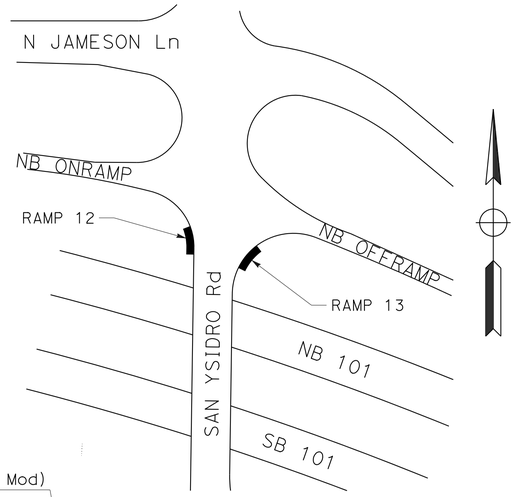
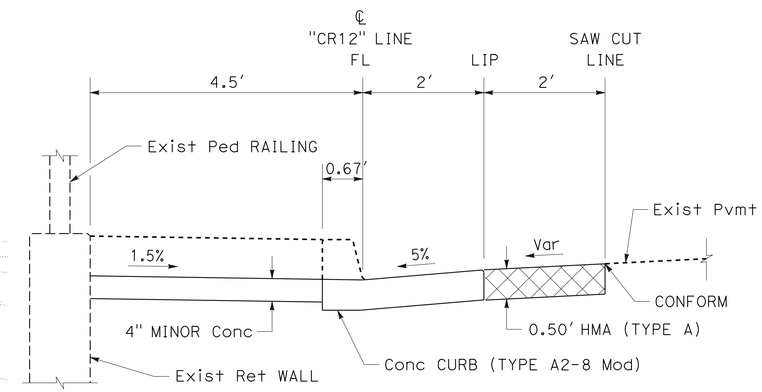
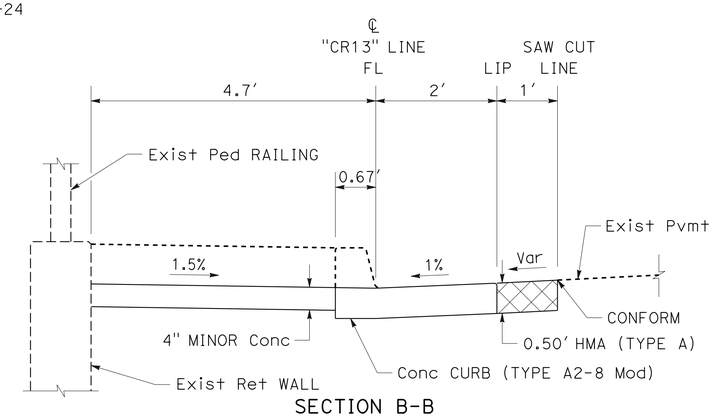




LOCATION DETAIL



SECTION A-A



SECTION B-B

CURB RAMPS No. 12 AND 13, PM 9.8
CASE C Mod
ROUTE 101 AND SAN YSIDRO Rd/NB RAMPS
SANTA BARBARA

CONSTRUCTION DETAILS

NO SCALE

C-7

REVISED BY | DATE REVISED
ALEJANDRO CORREA | SCOTT SHAVER
CALCULATED-DESIGNED BY | CHECKED BY
FUNCTIONAL SUPERVISOR: SCOTT SHAVER

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
06-DESIGN

LAST REVISION 05-21-14 | DATE PLOTTED => 25-AUG-2014 | TIME PLOTTED => 17:52

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	SB	1,101, 192,246	Var	9	66

REGISTERED CIVIL ENGINEER 5-21-14 DATE

5-27-14
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER SCOTT A. SHAVER No. 42946 Exp. 3-31-16 CIVIL STATE OF CALIFORNIA

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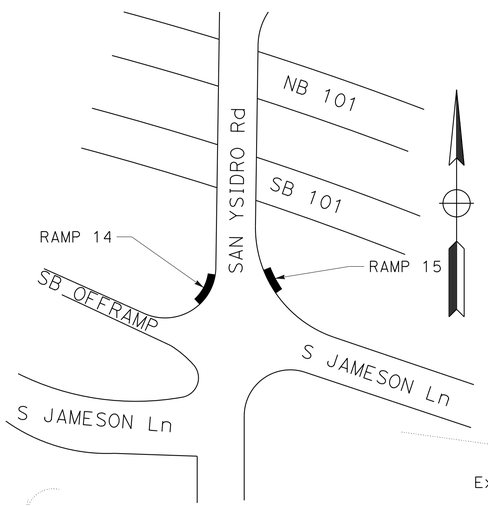
NOTE:

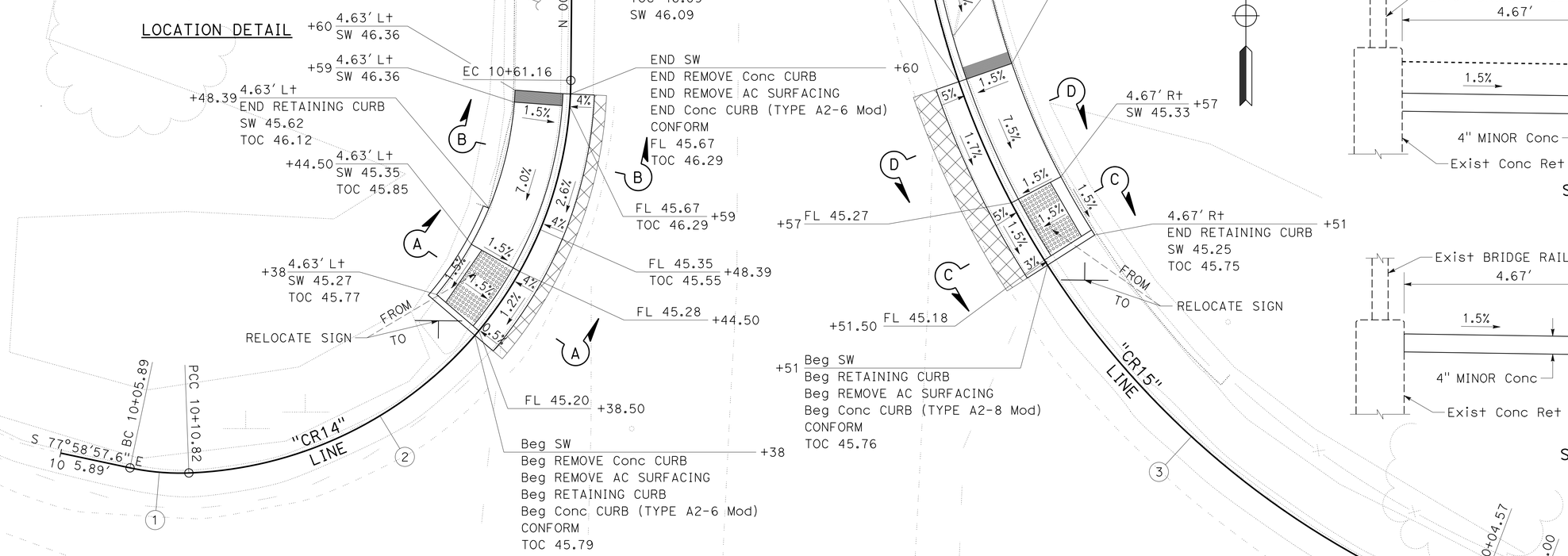
FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.

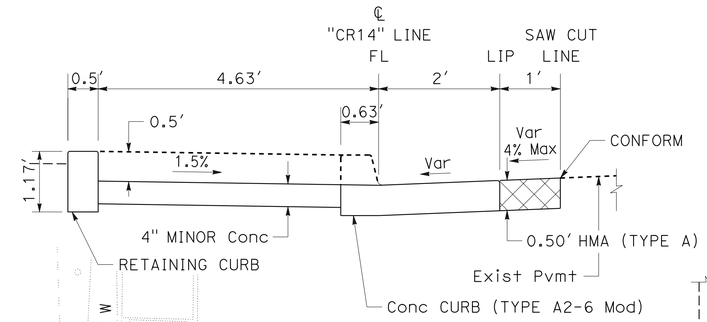
CURVE DATA

No.	R	Δ	T	L
1	20.00′	14°07′26"	2.48′	4.93′
2	33.00′	87°23′11"	31.53′	50.33′
3	72.00′	67°37′53"	48.23′	84.99′

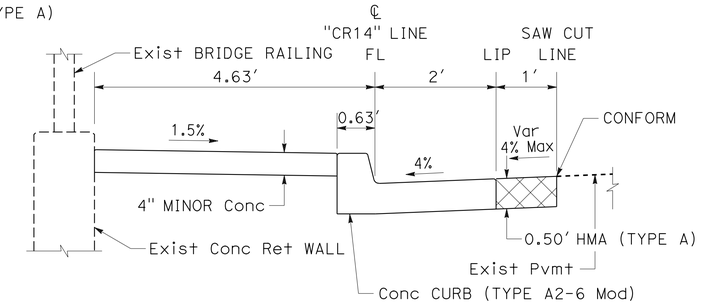


LOCATION DETAIL

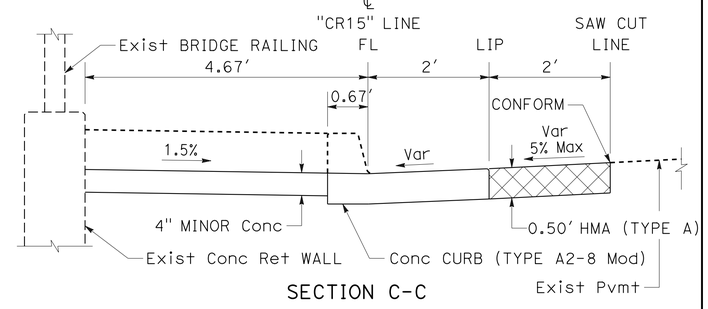




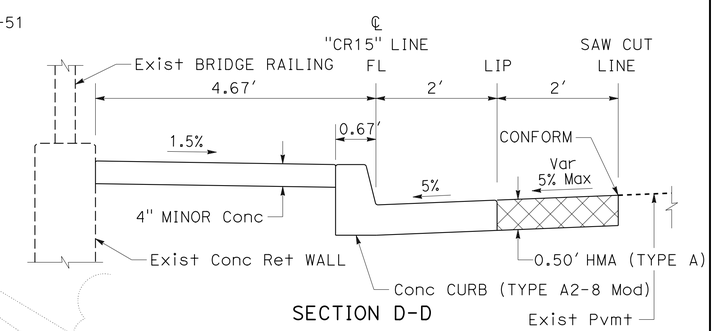
SECTION A-A



SECTION B-B



SECTION C-C



SECTION D-D

CURB RAMP No. 14, PM 10.0
CASE C Mod
ROUTE 101 AND SAN YSIDRO Rd/SB OFF-RAMP,
SANTA BARBARA

CURB RAMP No. 15, PM 10.0
CASE C Mod
ROUTE 101 AND SAN YSIDRO Rd/S JAMESON Ln
SANTA BARBARA

CONSTRUCTION DETAILS

NO SCALE

C-8

REVISED BY | DATE REVISED
ALEJANDRO CORREA | SCOTT SHAVER
CALCULATED-DESIGNED BY | CHECKED BY
FUNCTIONAL SUPERVISOR: SCOTT SHAVER

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
06-DESIGN

LAST REVISION 03-21-14 | DATE PLOTTED => 25-AUG-2014 | TIME PLOTTED => 17:52

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	SB	1,101, 192,246	Var	10	66

REGISTERED CIVIL ENGINEER 5-21-14 DATE

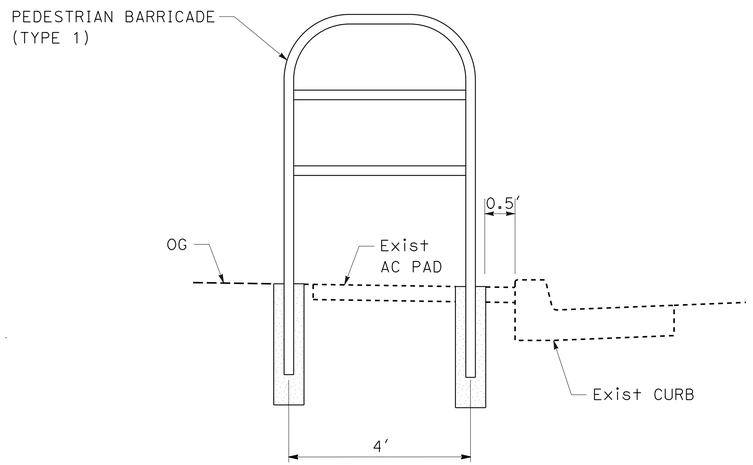
5-27-14
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER SCOTT A. SHAVER No. 42946 Exp. 3-31-16 CIVIL STATE OF CALIFORNIA

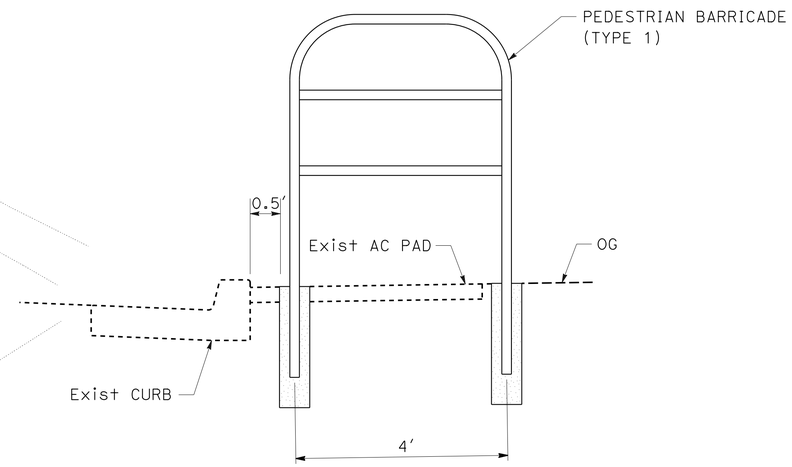
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

NOTE:

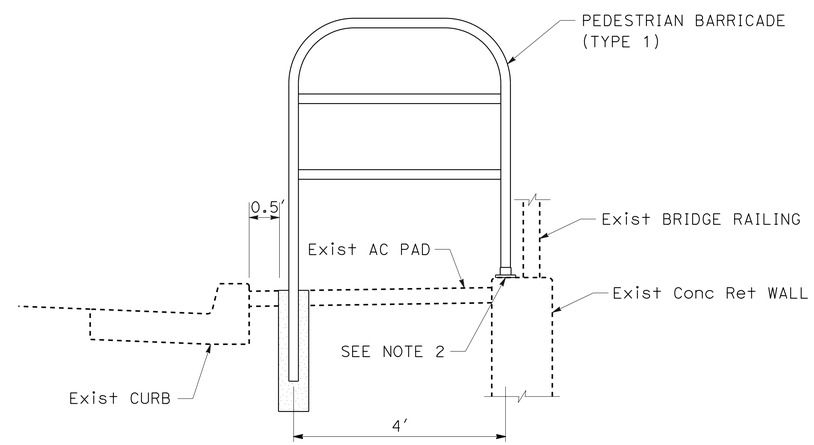
1. FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.
2. FOR ADDITIONAL DETAILS, SEE Std ES-7Q.



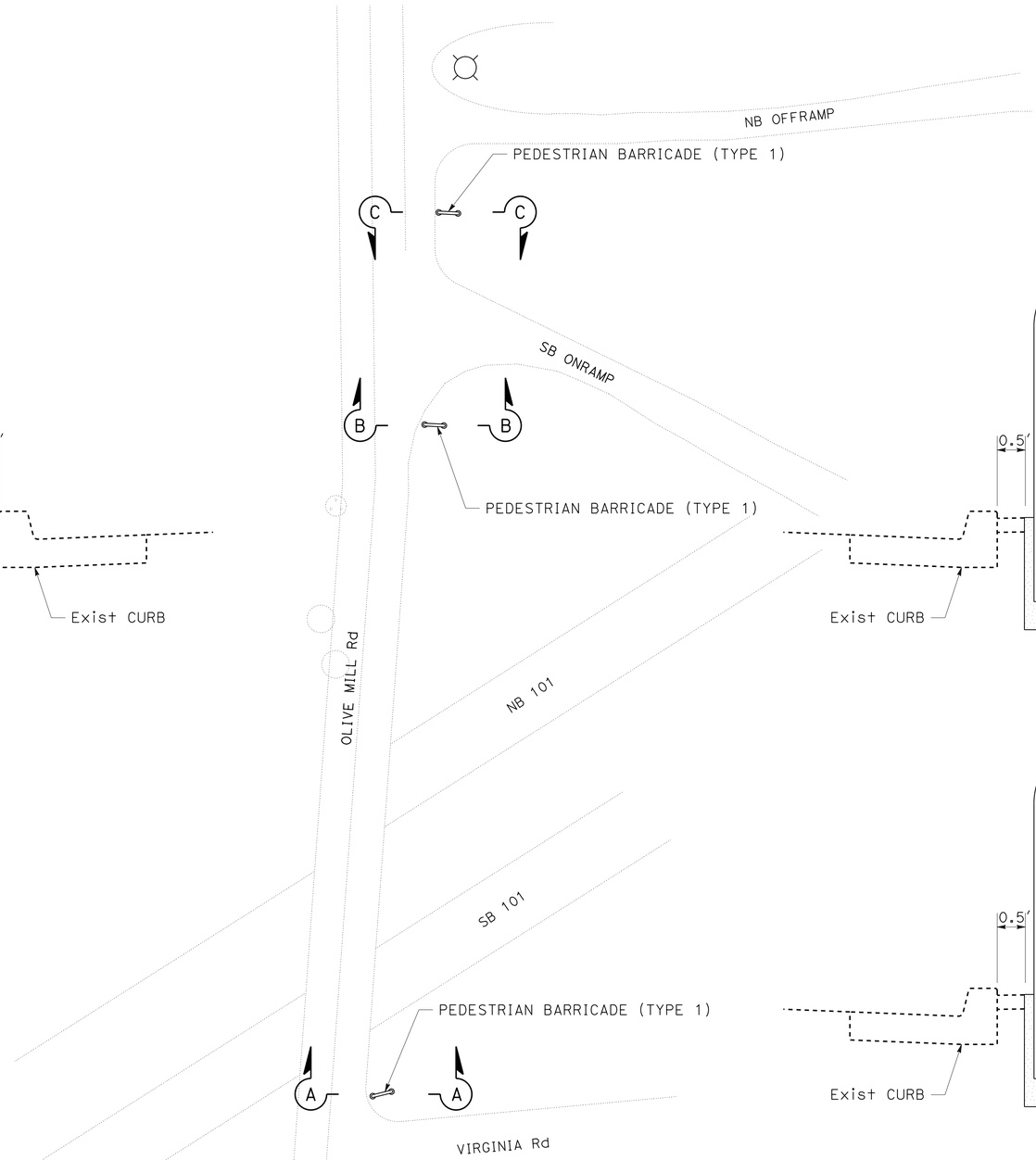
SECTION C-C

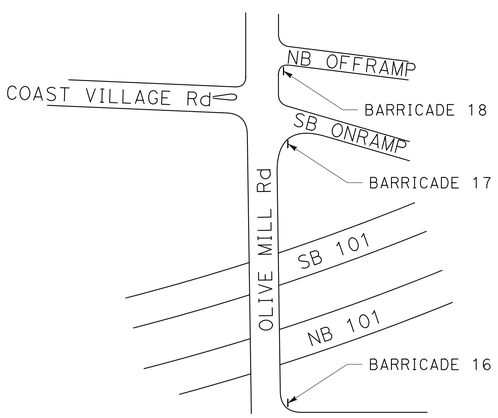


SECTION B-B



SECTION A-A





LOCATION DETAIL

BARRICADES No.16,17,18, PM 10.5
ROUTE 101 AND OLIVE MILL RD/SB ON-RAMP AND NB OFF-RAMP
SANTA BARBARA

CONSTRUCTION DETAILS

NO SCALE

C-9

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
06-DESIGN

FUNCTIONAL SUPERVISOR: SCOTT SHAVER
CALCULATED-DESIGNED BY: GILBERTO BACA
CHECKED BY: SCOTT SHAVER
REVISED BY
DATE REVISED

LAST REVISION 05-08-14
DATE PLOTTED => 25-AUG-2014
TIME PLOTTED => 17:52

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	SB	1,101, 192,246	Var	11	66

REGISTERED CIVIL ENGINEER 5-21-14 DATE

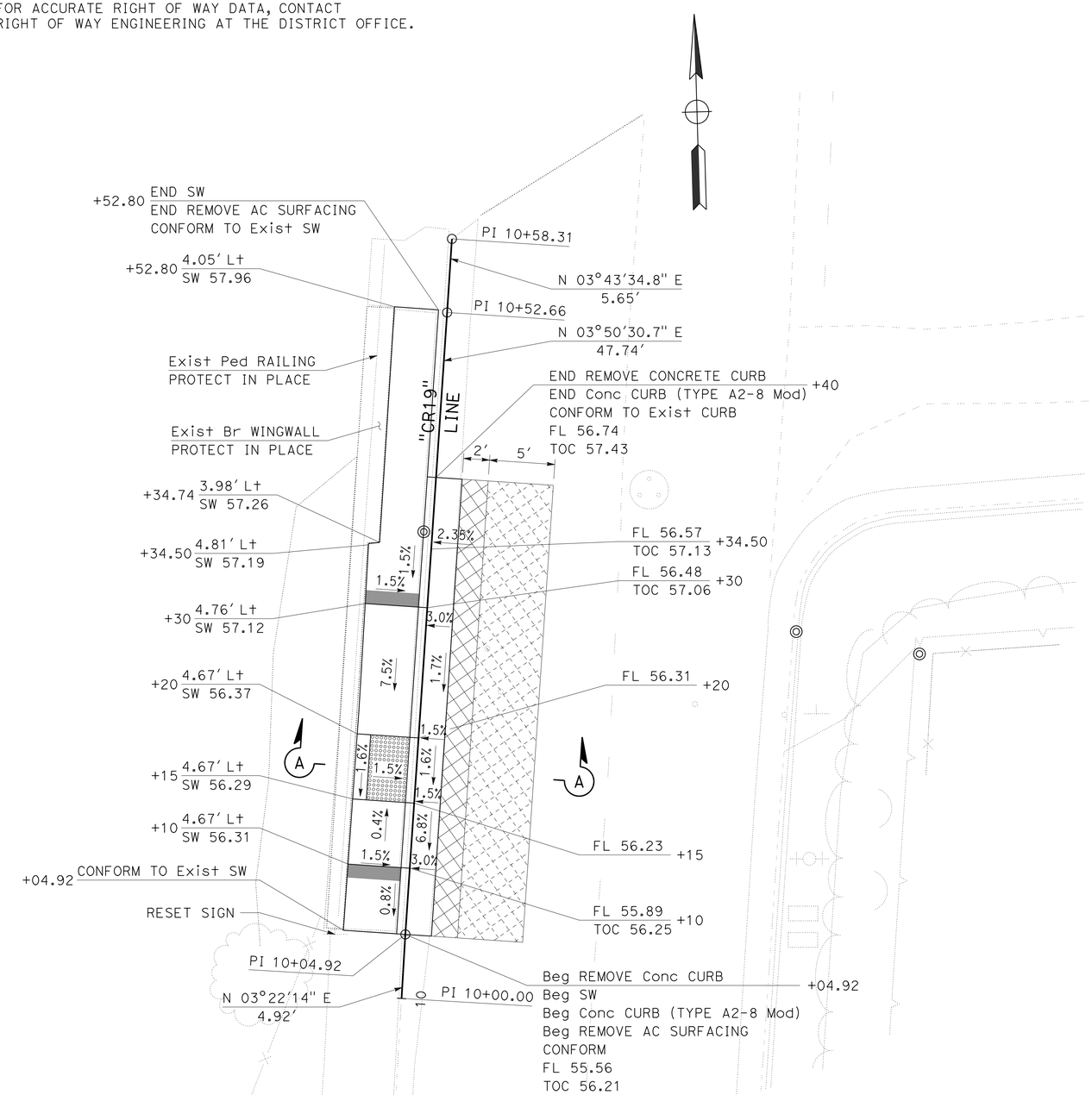
5-27-14
PLANS APPROVAL DATE

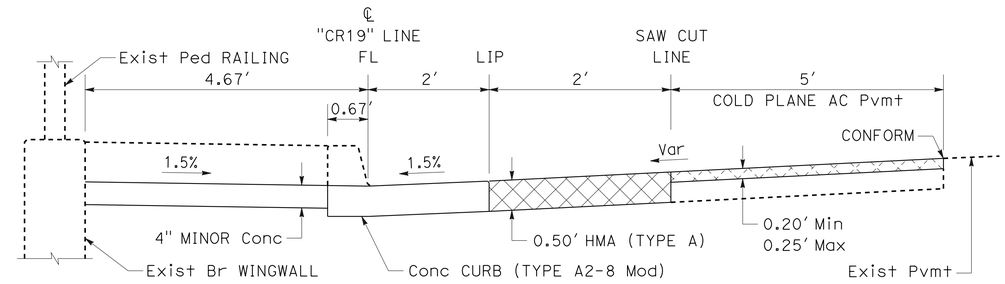
REGISTERED PROFESSIONAL ENGINEER SCOTT A. SHAVER No. 42946 Exp. 3-31-16 CIVIL STATE OF CALIFORNIA

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

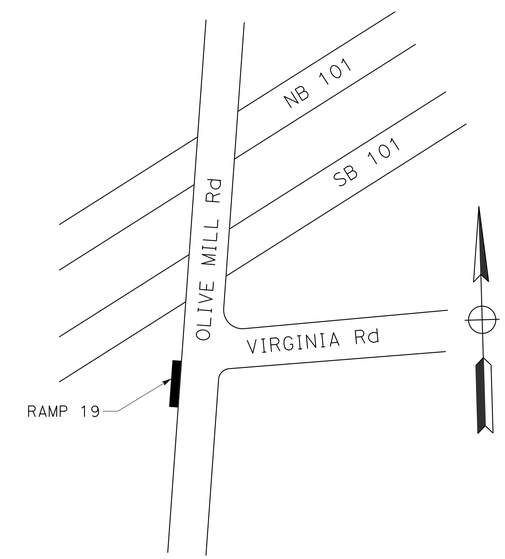
NOTE:

FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.





SECTION C-C



LOCATION DETAIL

CURB RAMP No. 19, PM 10.5
CASE C
ROUTE 101 AND OLIVE MILL RD/VIRGINIA RD
SANTA BARBARA

CONSTRUCTION DETAILS

NO SCALE

C-10

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
06-DESIGN

FUNCTIONAL SUPERVISOR: SCOTT SHAVER
CALCULATED-DESIGNED BY: GILBERTO BACA
CHECKED BY: SCOTT SHAVER
REVISED BY
DATE REVISED

LAST REVISION 04-21-14
DATE PLOTTED => 25-AUG-2014
TIME PLOTTED => 17:52

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	SB	1,101, 192,246	Var	12	66

REGISTERED CIVIL ENGINEER 5-21-14 DATE

5-27-14
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER SCOTT A. SHAVER No. 42946 Exp. 3-31-16 CIVIL STATE OF CALIFORNIA

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

NOTE:

FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.

CURVE DATA

No.	R	Δ	T	L
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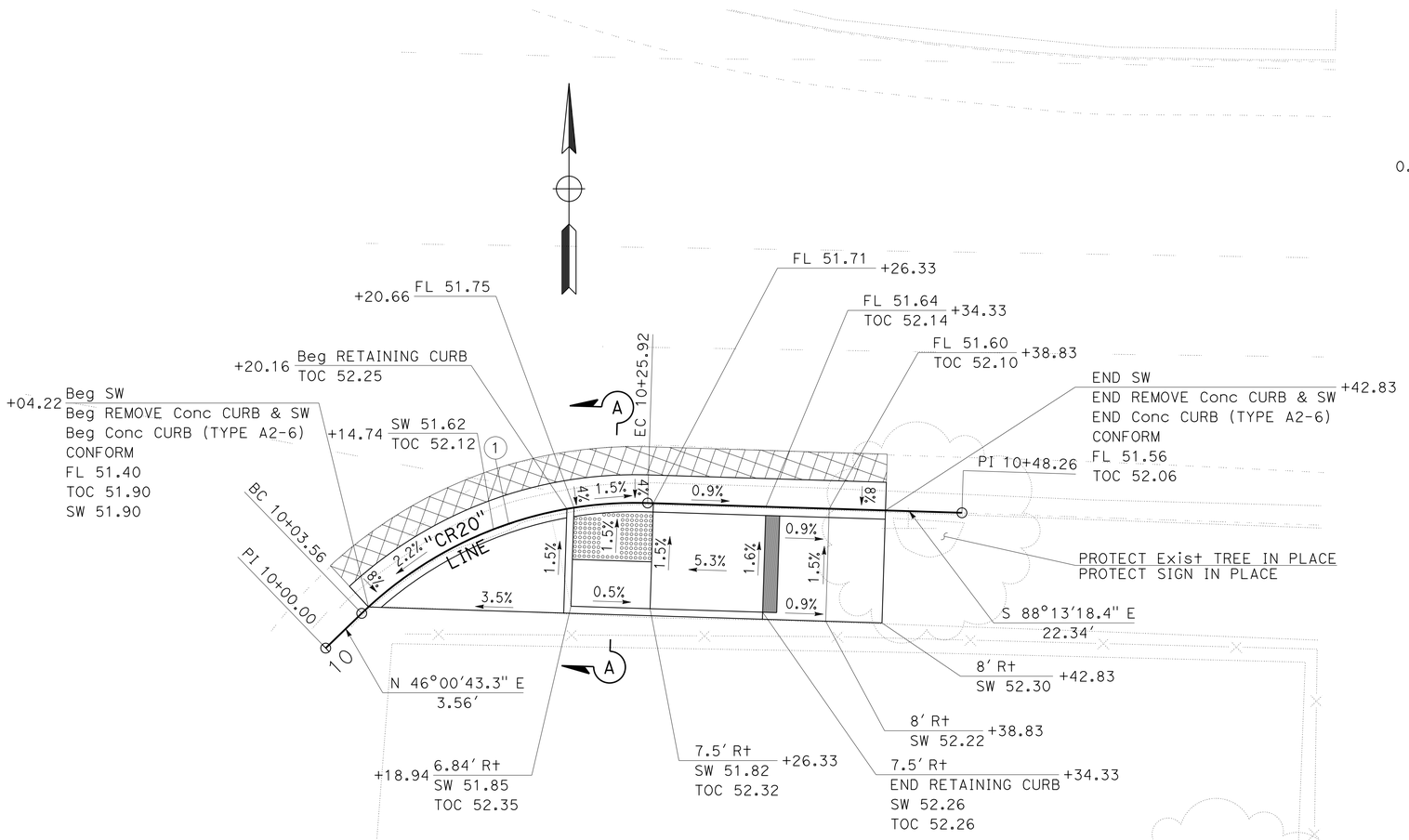
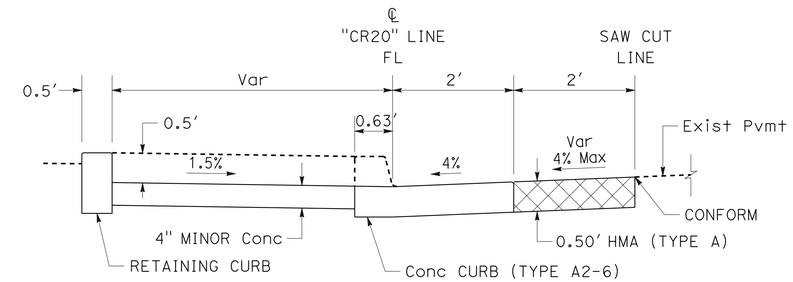
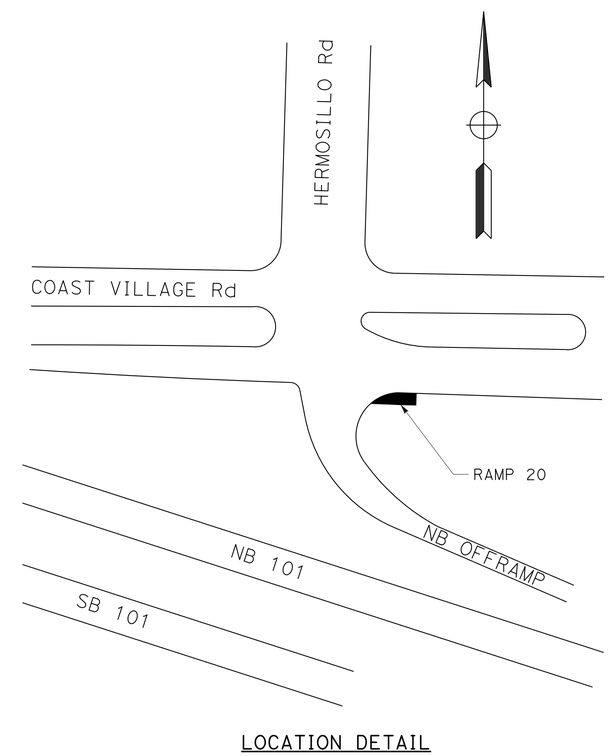


CURB RAMP No. 20, PM 11.0
CASE C
ROUTE 101 AND COAST VILLAGE Rd/NB OFF-RAMP
SANTA BARBARA



SECTION A-A



LOCATION DETAIL

CONSTRUCTION DETAILS

NO SCALE

C-11

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
06-DESIGN

FUNCTIONAL SUPERVISOR: SCOTT SHAVER
CALCULATED-DESIGNED BY: ALEJANDRO CORREA
CHECKED BY: SCOTT SHAVER
REVISED BY
DATE REVISED

LAST REVISION 04-15-14
DATE PLOTTED => 25-AUG-2014
TIME PLOTTED => 17:52

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	SB	1,101, 192,246	Var	13	66

REGISTERED CIVIL ENGINEER 5-21-14 DATE

5-27-14
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER SCOTT A. SHAVER No. 42946 Exp. 3-31-16 CIVIL STATE OF CALIFORNIA

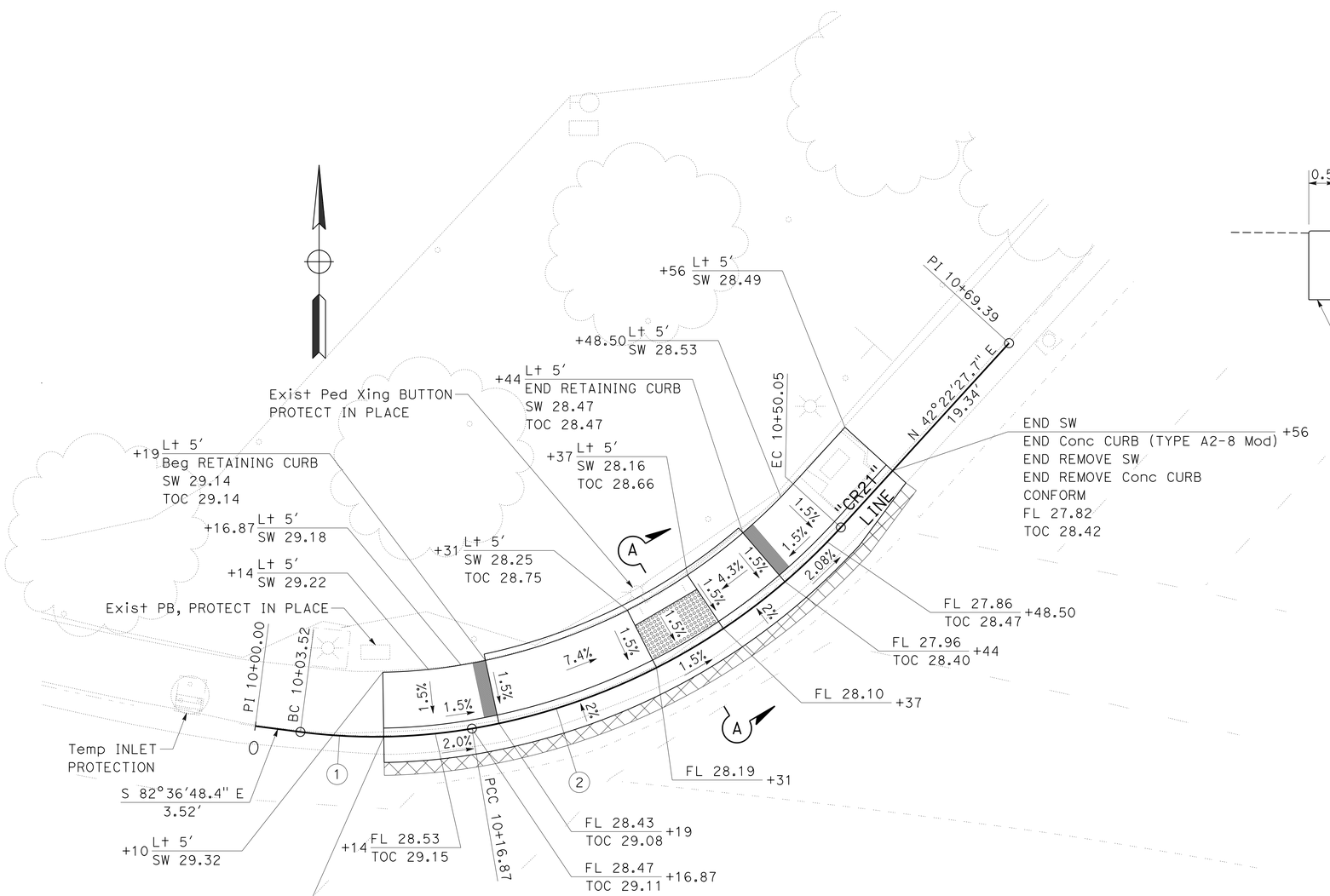
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

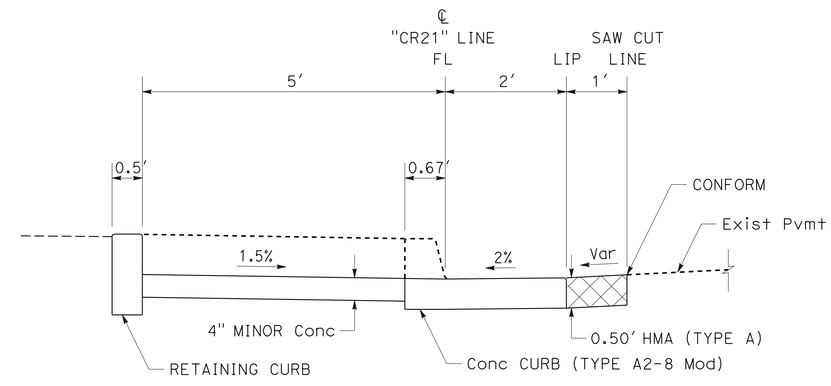
NOTE:

FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.

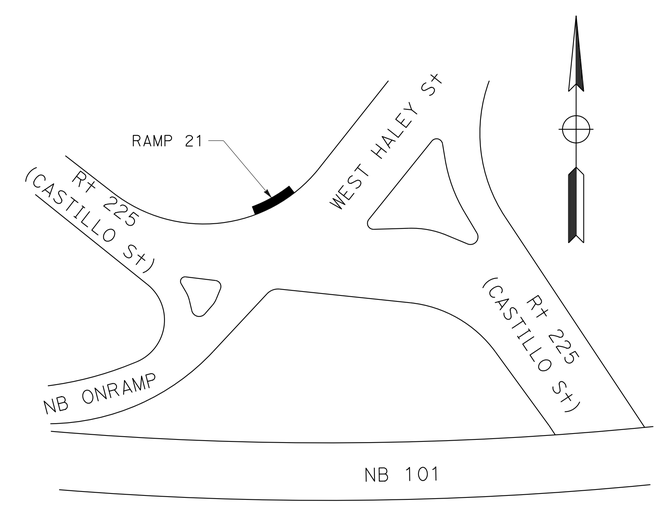
CURVE DATA

No.	R	Δ	T	L
1	45.00′	16°59′37″	6.72′	13.35′
2	50.00′	38°01′14″	17.23′	33.18′





SECTION A-A



LOCATION DETAIL

CURB RAMP No. 21, PM R14.3
CASE C
ROUTE 101 AND ROUTE 225 (CASTILLO St)
SANTA BARBARA

CONSTRUCTION DETAILS

NO SCALE

C-12

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
06-DESIGN

FUNCTIONAL SUPERVISOR: SCOTT SHAVER
CALCULATED-DESIGNED BY: GILBERTO BACA
CHECKED BY: SCOTT SHAVER
REVISED BY
DATE REVISED

LAST REVISION 04-14-14
DATE PLOTTED => 25-AUG-2014
TIME PLOTTED => 17:52

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	SB	1,101, 192,246	Var	14	66

REGISTERED CIVIL ENGINEER 5-21-14 DATE

5-27-14
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER SCOTT A. SHAVER No. 42946 Exp. 3-31-16 CIVIL STATE OF CALIFORNIA

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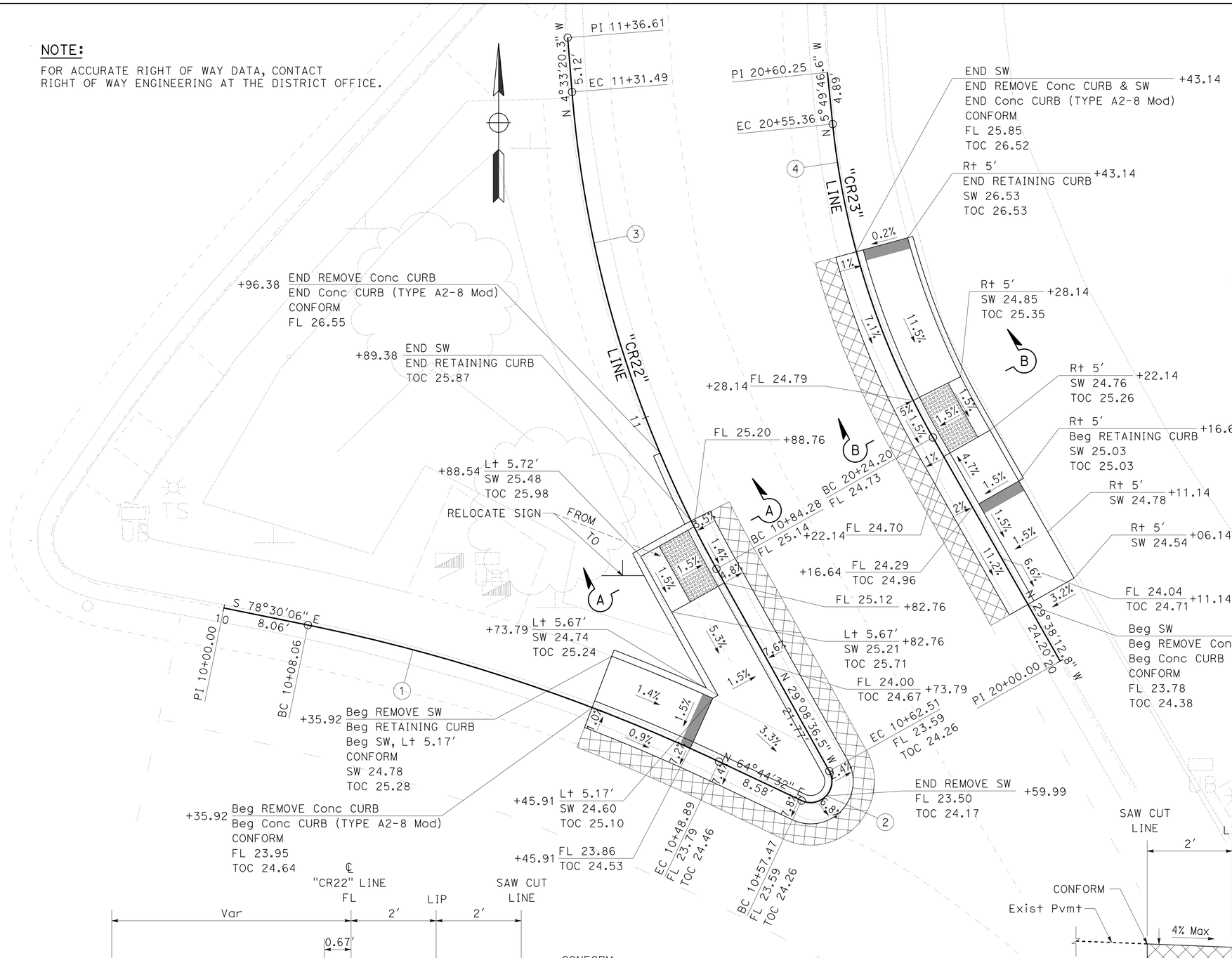
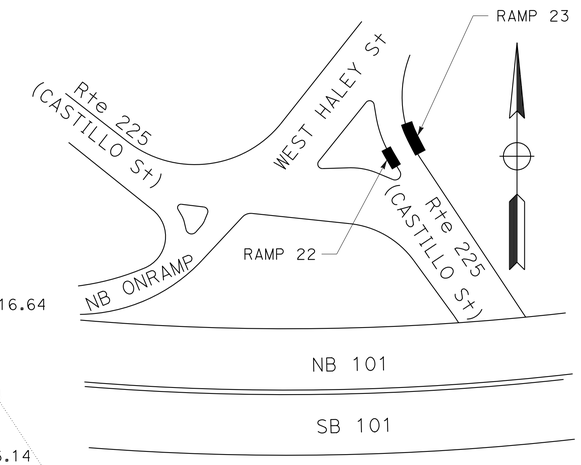
NOTE:

FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.





LOCATION DETAIL

CURVE DATA

No.	R	Δ	T	L
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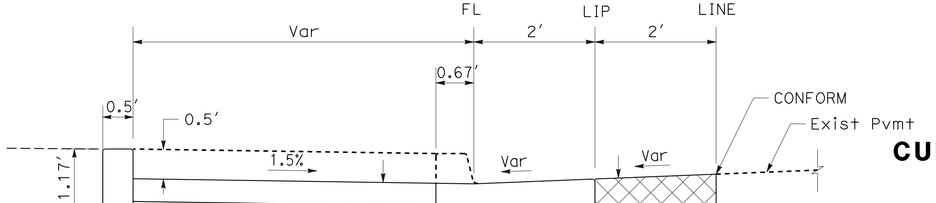
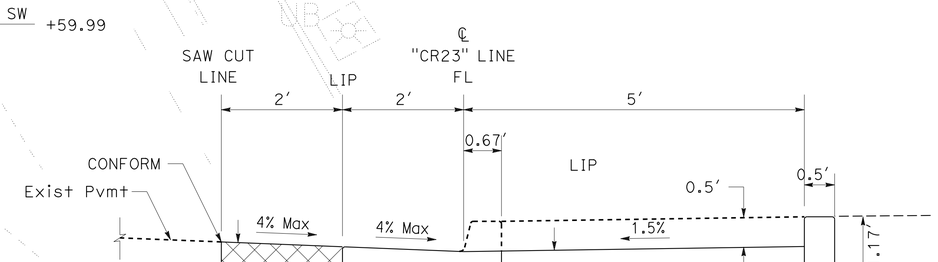
2	2.00′	144°24′04"	6.23′	5.04′
3	110.00′	24°35′16"	23.97′	47.21′
4	75.00′	23°48′26"	15.81′	31.16′



SECTION A-A



SECTION B-B

CURB RAMPS No. 22 AND No. 23, PM 14.2
CASE C Mod AND CASE C
ROUTE 101 AND ROUTE 225
(CASTILLO St)/WEST HALEY St
SANTA BARBARA

CONSTRUCTION DETAILS

NO SCALE

C-13

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
06-DESIGN

FUNCTIONAL SUPERVISOR: SCOTT SHAVER
CALCULATED-DESIGNED BY: ALEJANDRO CORREA
CHECKED BY: SCOTT SHAVER
REVISED BY
DATE REVISED

LAST REVISION 05-08-14
DATE PLOTTED => 25-AUG-2014
TIME PLOTTED => 17:52

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	SB	1,101, 192,246	Var	15	66

REGISTERED CIVIL ENGINEER 5-21-14 DATE

5-27-14
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER SCOTT A. SHAVER No. 42946 Exp. 3-31-16 CIVIL STATE OF CALIFORNIA

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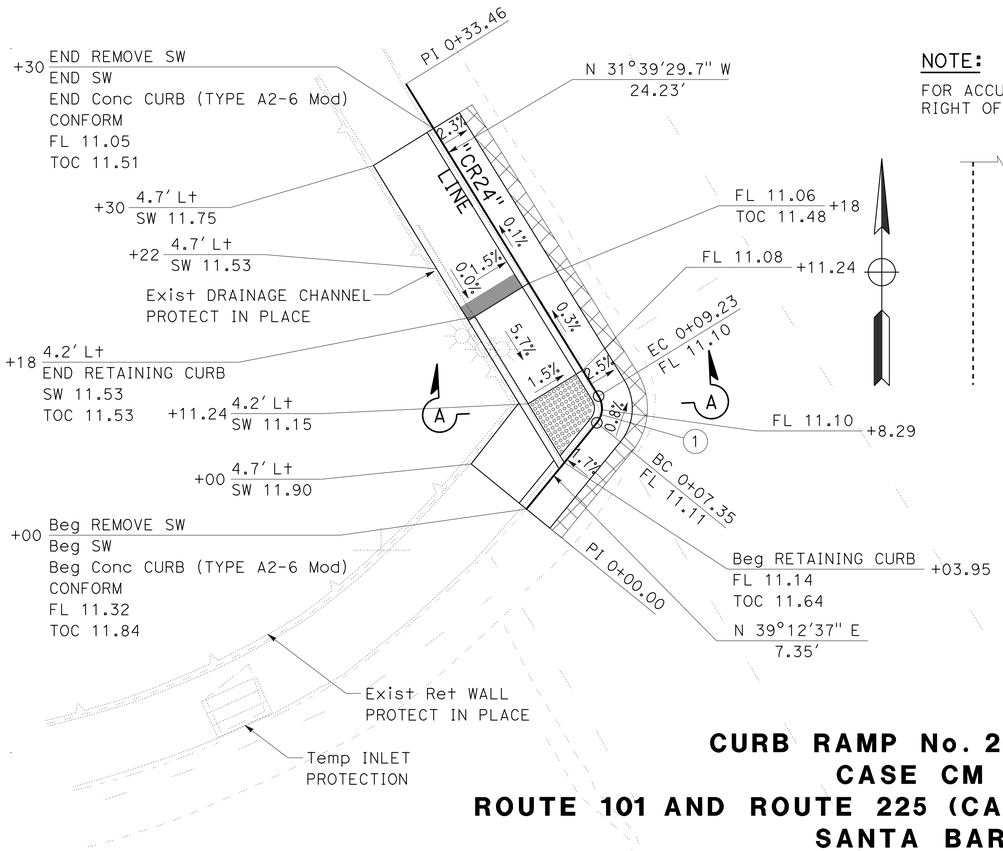
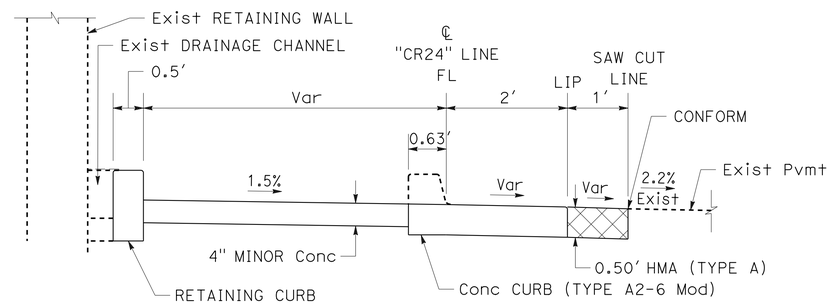
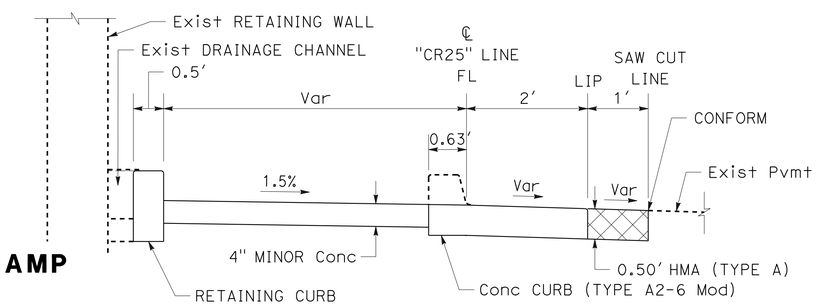
NOTE:

FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.





SECTION A-A

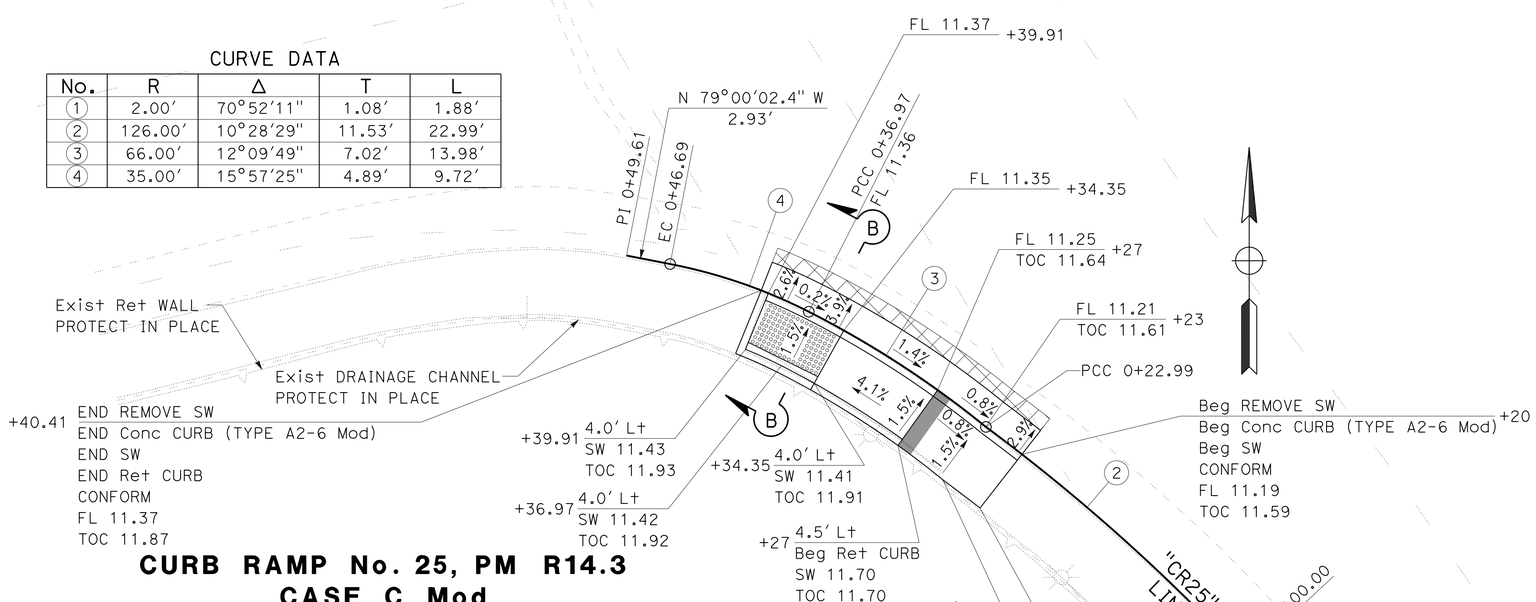


SECTION B-B

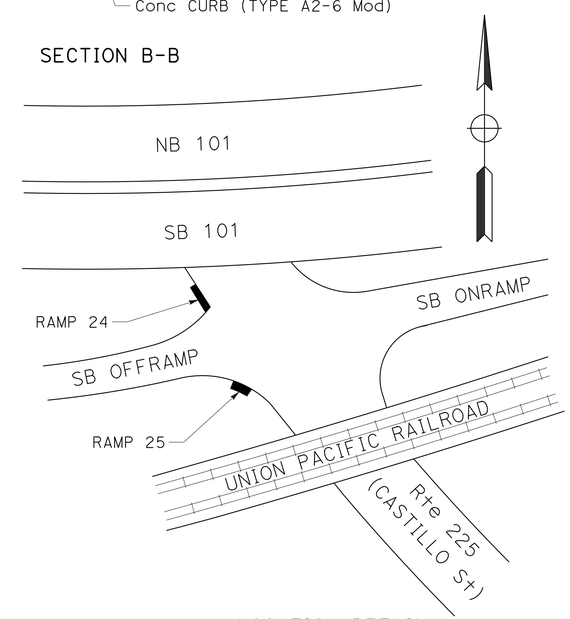
CURB RAMP No. 24, PM R14.3
CASE CM Mod
ROUTE 101 AND ROUTE 225 (CASTILLO St)/SB OFF-RAMP
SANTA BARBARA

CURVE DATA

No.	R	Δ	T	L
1	2.00'	70°52'11"	1.08'	1.88'
2	126.00'	10°28'29"	11.53'	22.99'
3	66.00'	12°09'49"	7.02'	13.98'
4	35.00'	15°57'25"	4.89'	9.72'



CURB RAMP No. 25, PM R14.3
CASE C Mod
ROUTE 101 AND ROUTE 225 (CASTILLO St)/SB OFFRAMP
SANTA BARBARA



LOCATION DETAIL

CONSTRUCTION DETAILS

NO SCALE

C-14

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
06-DESIGN

FUNCTIONAL SUPERVISOR: SCOTT SHAVER
CALCULATED-DESIGNED BY: WAFAA SIQUEIROS
CHECKED BY: SCOTT SHAVER
REVISED BY
DATE REVISED

LAST REVISION 05-08-14
DATE PLOTTED => 25-AUG-2014
TIME PLOTTED => 17:52

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	SB	1,101, 192,246	Var	16	66

REGISTERED CIVIL ENGINEER 5-21-14 DATE

5-27-14
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER SCOTT A. SHAVER No. 42946 Exp. 3-31-16 CIVIL STATE OF CALIFORNIA

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NOTE:

FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.

CURVE DATA

No.	R	Δ	T	L
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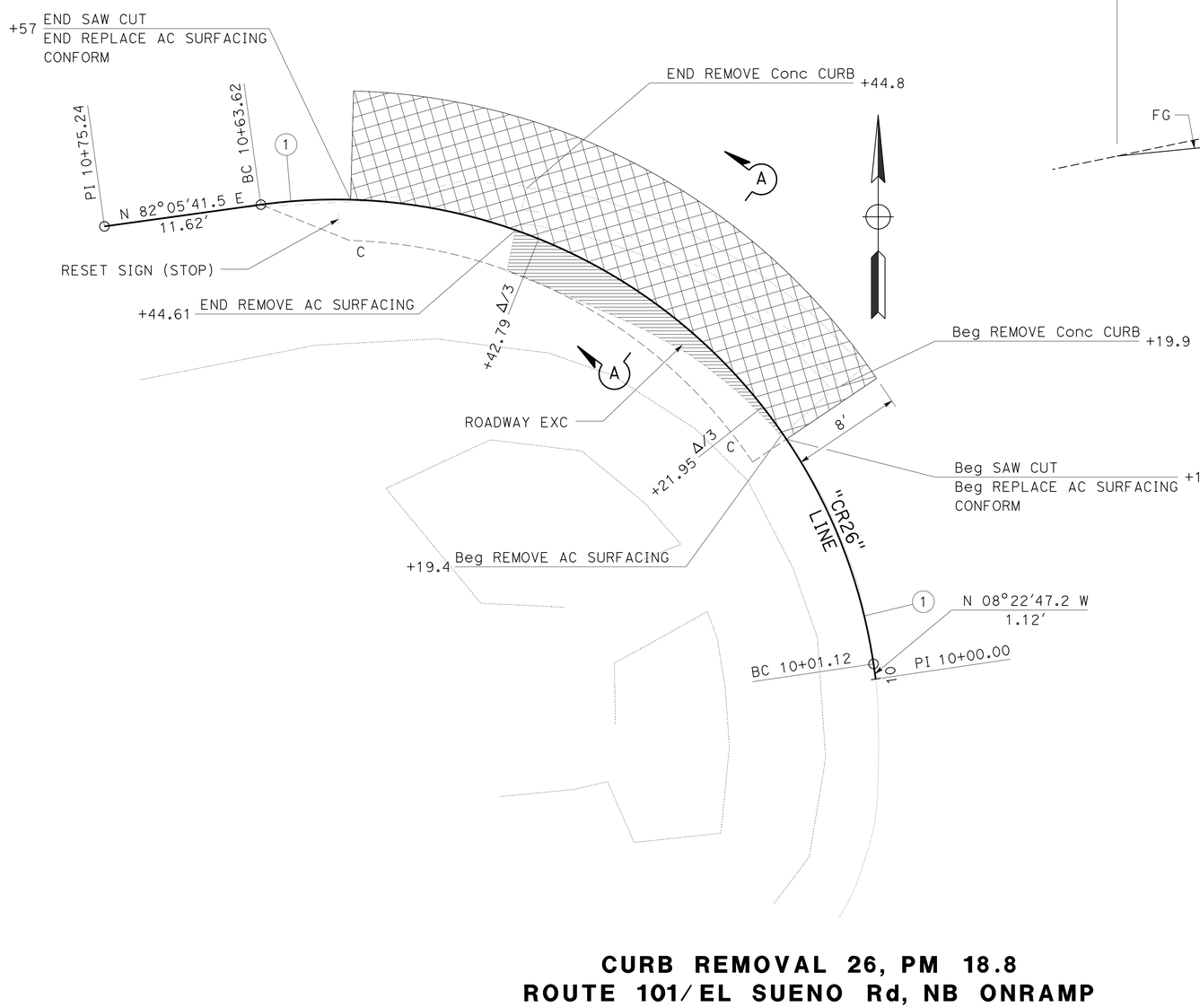
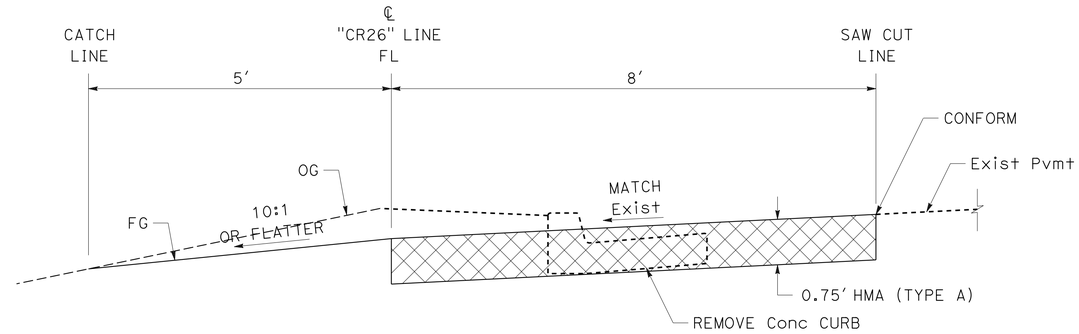
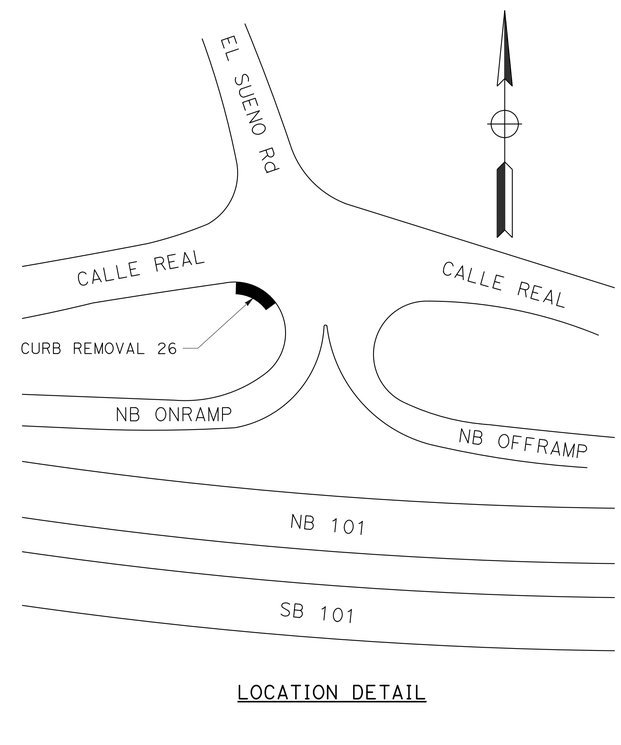




SECTION A-A



LOCATION DETAIL

CURB REMOVAL 26, PM 18.8
ROUTE 101/EL SUENO Rd, NB ONRAMP

CONSTRUCTION DETAILS

NO SCALE

C-15

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
06-DESIGN

FUNCTIONAL SUPERVISOR: SCOTT SHAVER
CALCULATED-DESIGNED BY: GILBERTO BACA
CHECKED BY: SCOTT SHAVER
REVISED BY
DATE REVISED

LAST REVISION 05-08-14
DATE PLOTTED => 25-AUG-2014
TIME PLOTTED => 17:52

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	SB	1,101, 192,246	Var	17	66

REGISTERED CIVIL ENGINEER 5-21-14 DATE

5-27-14
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER SCOTT A. SHAVER No. 42946 Exp. 3-31-16 CIVIL STATE OF CALIFORNIA

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

NOTE:

FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.

CURVE DATA

No.	R	Δ	T	L
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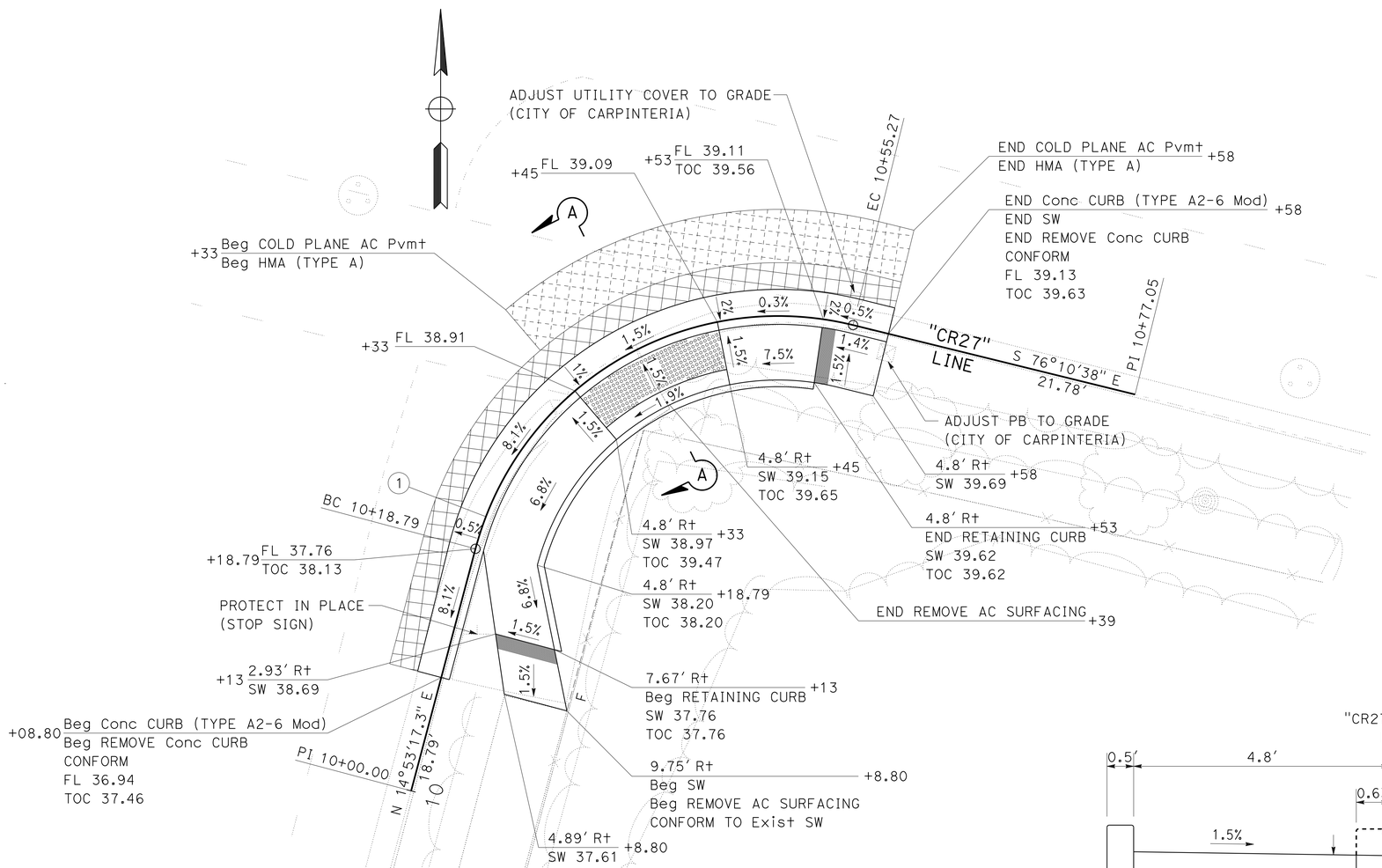
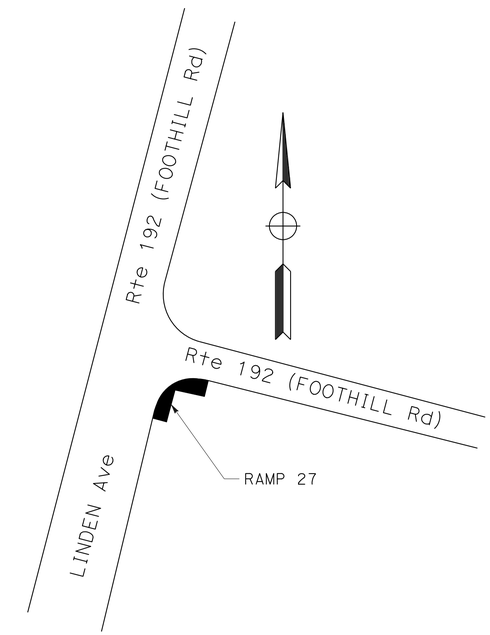
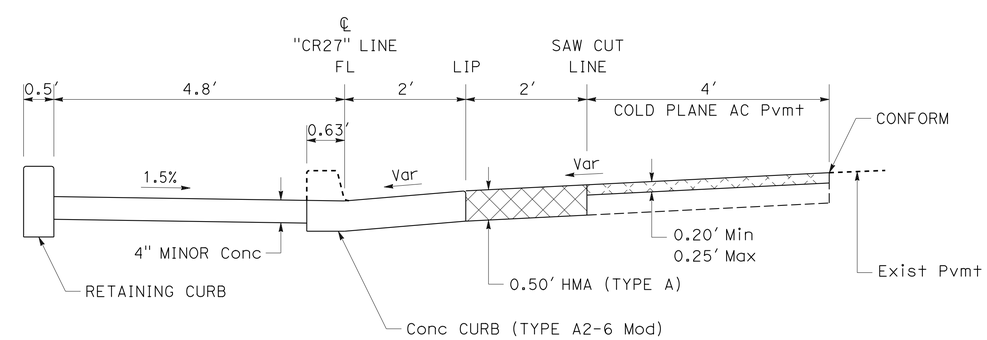


CURB RAMP No. 27, PM 17.4
CASE C Mod
Rte 192 (FOOTHILL Rd) AND LINDEN Ave
CARPINTERIA



LOCATION DETAIL



SECTION A-A

CONSTRUCTION DETAILS

NO SCALE

C-16

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
06-DESIGN

FUNCTIONAL SUPERVISOR: SCOTT SHAVER
CALCULATED-DESIGNED BY: GILBERTO BACA
CHECKED BY: SCOTT SHAVER
REVISED BY
DATE REVISED

LAST REVISION 05-21-14
DATE PLOTTED => 25-AUG-2014
TIME PLOTTED => 17:52

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	SB	1,101, 192,246	Var	18	66

REGISTERED CIVIL ENGINEER 5-21-14 DATE

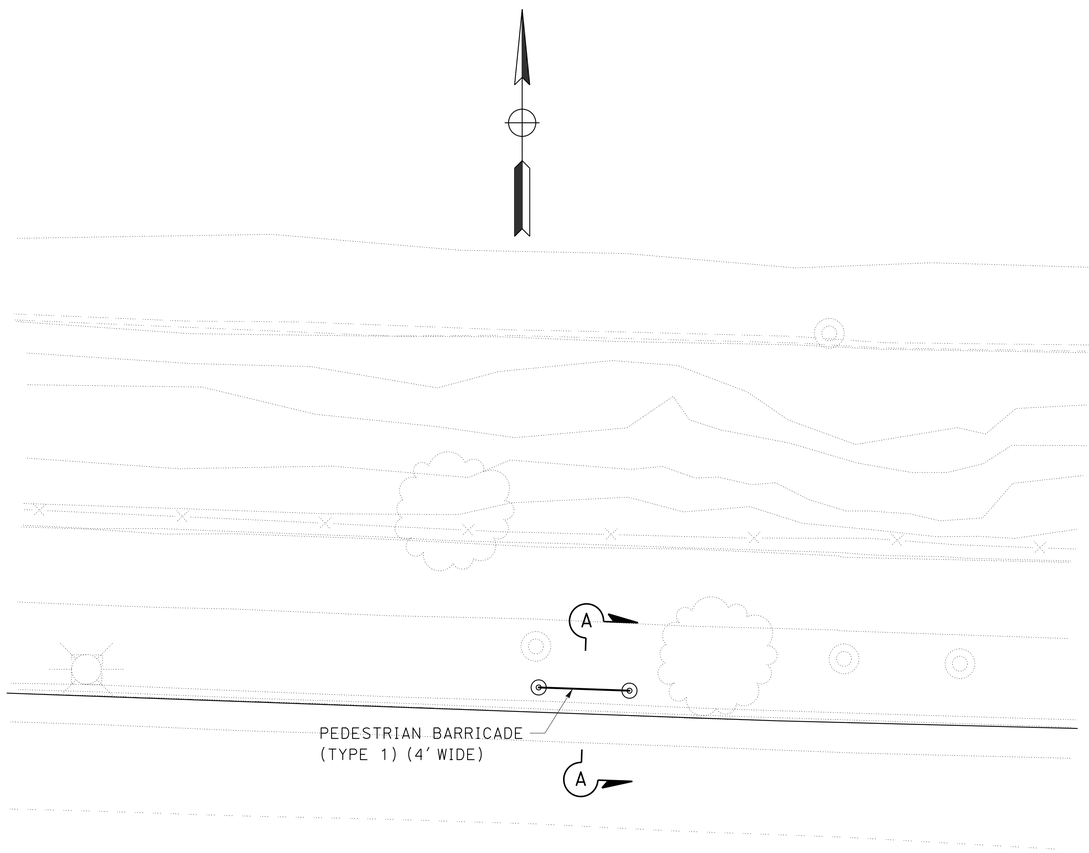
5-27-14
PLANS APPROVAL DATE

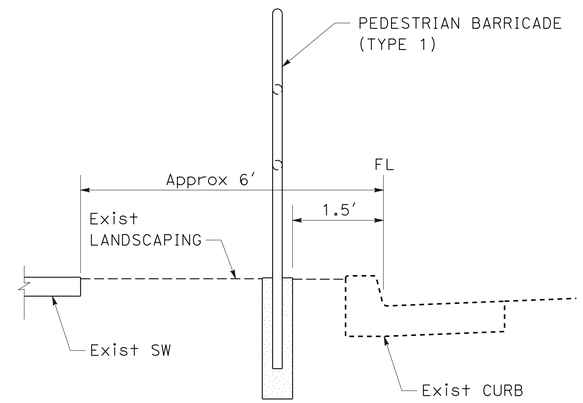
REGISTERED PROFESSIONAL ENGINEER SCOTT A. SHAVER No. 42946 Exp. 3-31-16 CIVIL STATE OF CALIFORNIA

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

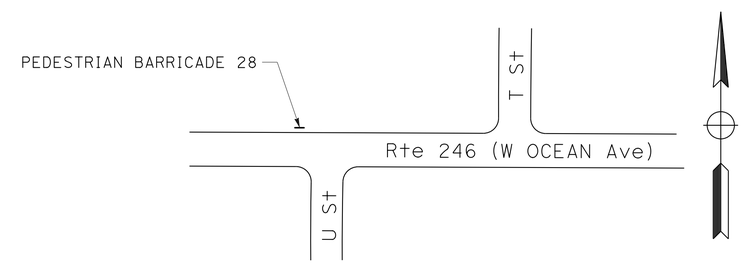
NOTE:

1. FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.
2. FOR ADDITIONAL DETAILS SEE Std ES-7Q





SECTION A-A



LOCATION DETAIL

PEDESTRIAN BARRICADE No. 28, PM 8.6
ROUTE 246 (W OCEAN Ave) AND U St
LOMPOC

CONSTRUCTION DETAILS

NO SCALE

C-17

REVISED BY | DATE REVISED
GILBERTO BACA | SCOTT SHAVER
CALCULATED-DESIGNED BY | CHECKED BY
FUNCTIONAL SUPERVISOR: SCOTT SHAVER
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
06-DESIGN

LAST REVISION 05-08-14 | DATE PLOTTED => 25-AUG-2014 | TIME PLOTTED => 17:52

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	SB	1,101, 192,246	Var	19	66

REGISTERED CIVIL ENGINEER 5-21-14 DATE

5-27-14
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER SCOTT A. SHAVER No. 42946 Exp. 3-31-16 CIVIL STATE OF CALIFORNIA

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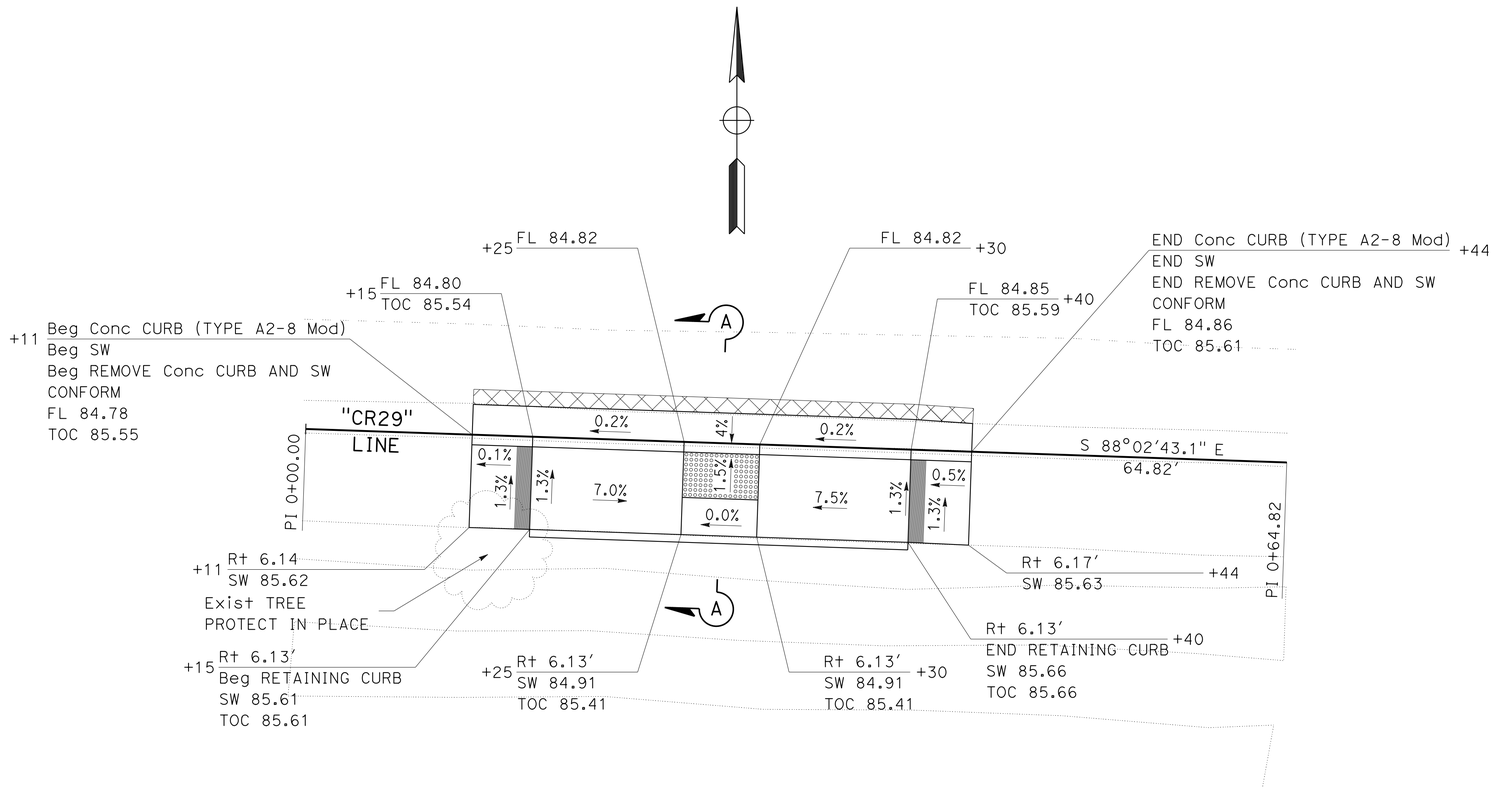
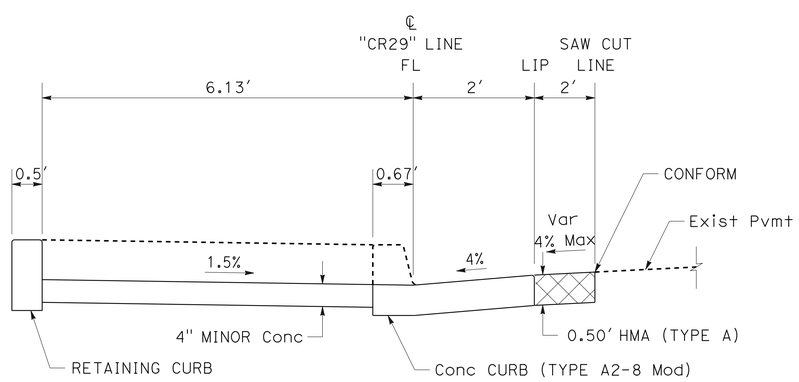
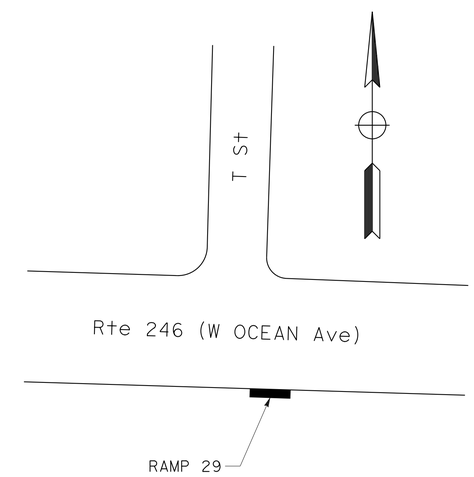
NOTE:

FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.





SECTION A-A



LOCATION DETAIL

CURB RAMP No. 29, PM 8.7
CASE C
ROUTE 246 (OCEAN Ave) AND N "T" ST
LOMPOC

CONSTRUCTION DETAILS

NO SCALE

C-18

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
06-DESIGN

FUNCTIONAL SUPERVISOR: SCOTT SHAVER
CALCULATED-DESIGNED BY: WAFAA SIQUEIROS
CHECKED BY: SCOTT SHAVER
REVISED BY
DATE REVISED

LAST REVISION 04-15-14
DATE PLOTTED => 25-AUG-2014
TIME PLOTTED => 17:52

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	SB	1,101, 192,246	Var	20	66

REGISTERED CIVIL ENGINEER 5-21-14 DATE

5-27-14
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER SCOTT A. SHAVER No. 42946 Exp. 3-31-16 CIVIL STATE OF CALIFORNIA

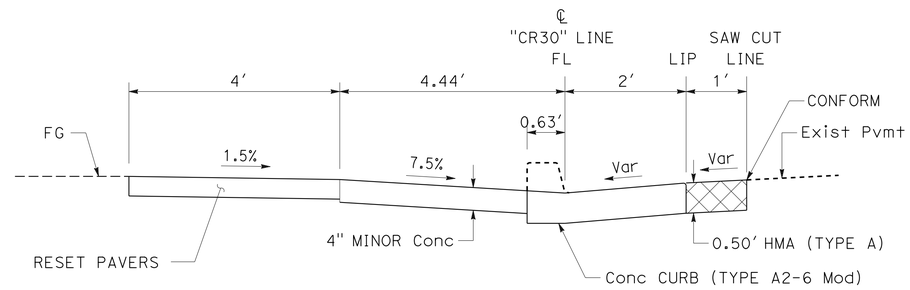
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

NOTE:

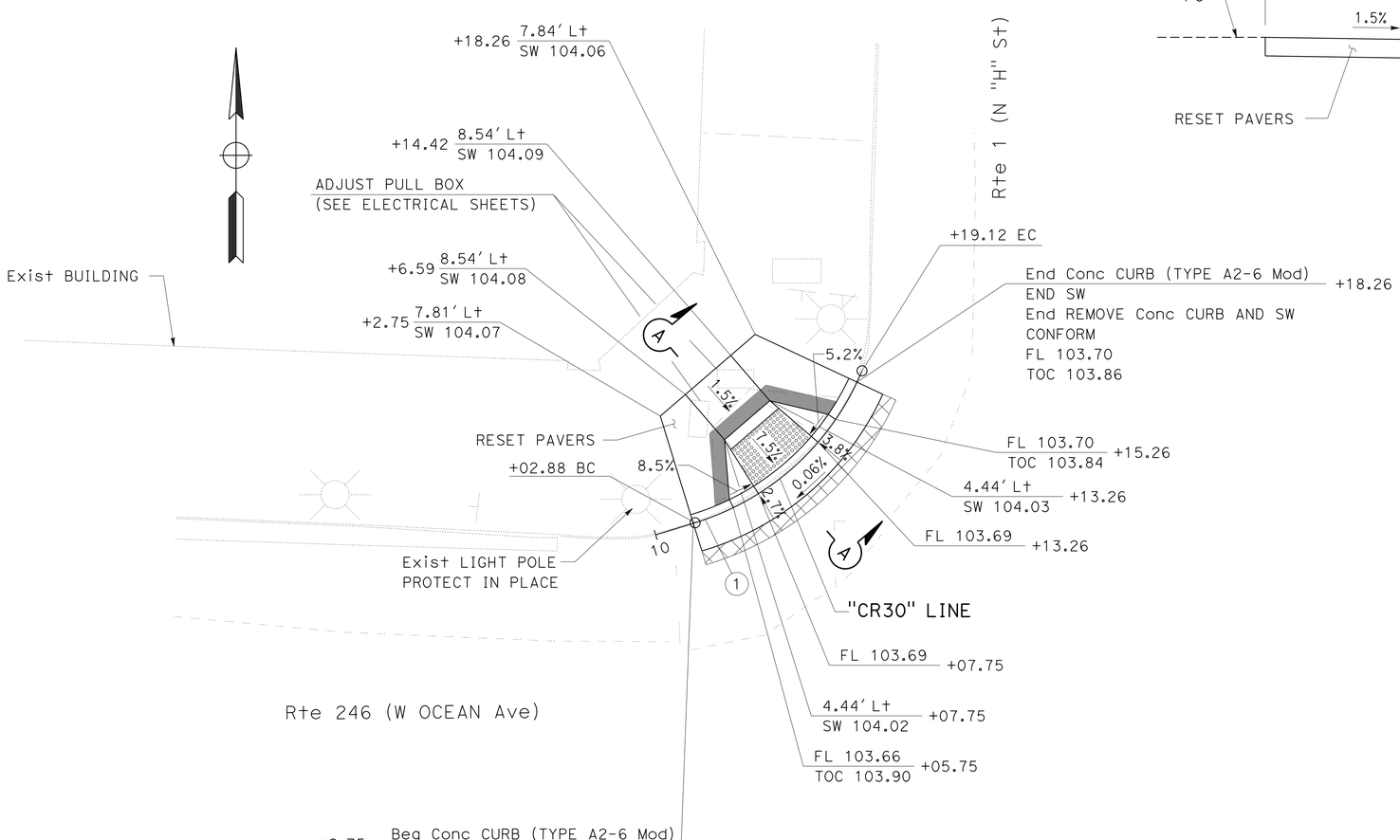
FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.

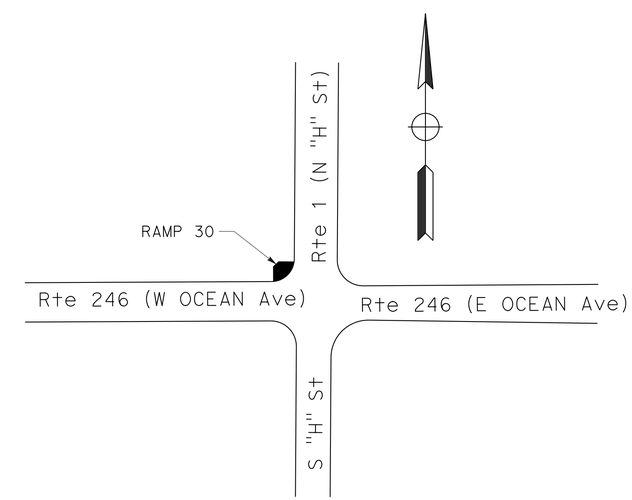
CURVE DATA

No.	R	Δ	T	L
1	18.43′	50°29′42"	8.69′	16.24′



SECTION A-A





LOCATION DETAIL

CURB RAMP No. 30, PM 9.5
CASE A
ROUTE 246 (W OCEAN Ave)/ROUTE 1 (N "H" St)
LOMPOC

CONSTRUCTION DETAILS

NO SCALE

C-19

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
06-DESIGN

FUNCTIONAL SUPERVISOR: SCOTT SHAVER
CALCULATED-DESIGNED BY: WAFAA SIQUEIROS
CHECKED BY: SCOTT SHAVER
REVISED BY
DATE REVISED

LAST REVISION 04-15-14
DATE PLOTTED => 25-AUG-2014
TIME PLOTTED => 17:52

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	SB	1,101, 192,246	Var	21	66

REGISTERED CIVIL ENGINEER 5-21-14 DATE

5-27-14
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER SCOTT A. SHAVER No. 42946 Exp. 3-31-16 CIVIL STATE OF CALIFORNIA

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NOTE:

FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.

CURVE DATA

No.	R	Δ	T	L
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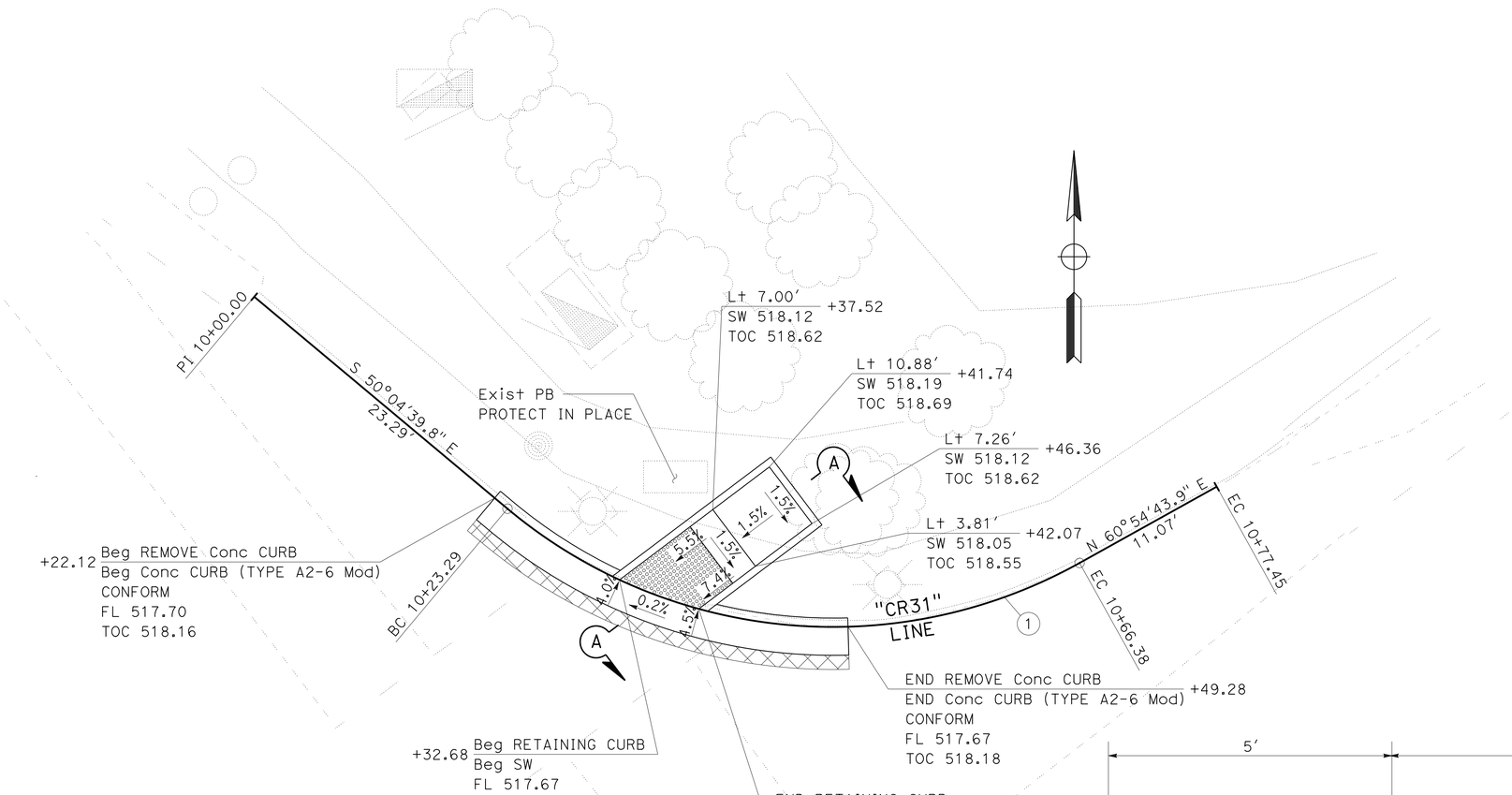
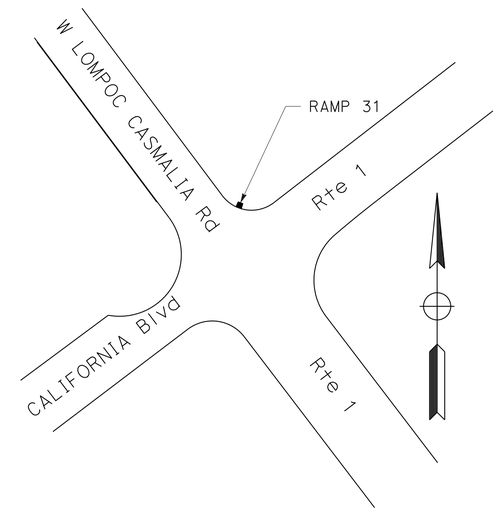
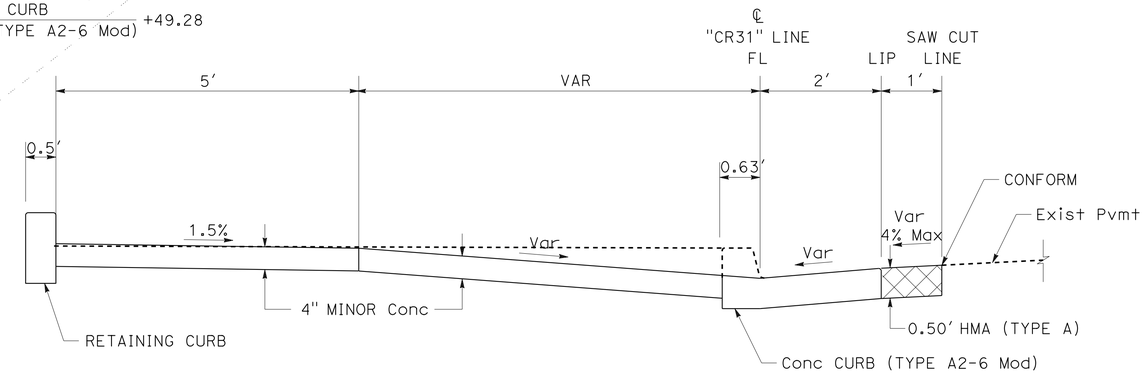




LOCATION DETAIL



SECTION A-A

CURB RAMP No. 31, PM 29.9
PEDESTRIAN PAD
ROUTE 1 AND LOMPOC CASMALIA Rd/CALIFORNIA Blvd
LOMPOC

CONSTRUCTION DETAILS

NO SCALE

C-20

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
06-DESIGN

FUNCTIONAL SUPERVISOR: SCOTT SHAVER
CALCULATED-DESIGNED BY: WAFAA SIQUEIROS
CHECKED BY: SCOTT SHAVER
REVISED BY
DATE REVISED

LAST REVISION 04-15-14
DATE PLOTTED => 25-AUG-2014
TIME PLOTTED => 17:52

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	SB	1,101, 192,246	Var	22	66

REGISTERED CIVIL ENGINEER 5-21-14 DATE

5-27-14
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER SCOTT A. SHAVER No. 42946 Exp. 3-31-16 CIVIL STATE OF CALIFORNIA

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

NOTE:

FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.

CURVE DATA

No.	R	Δ	T	L
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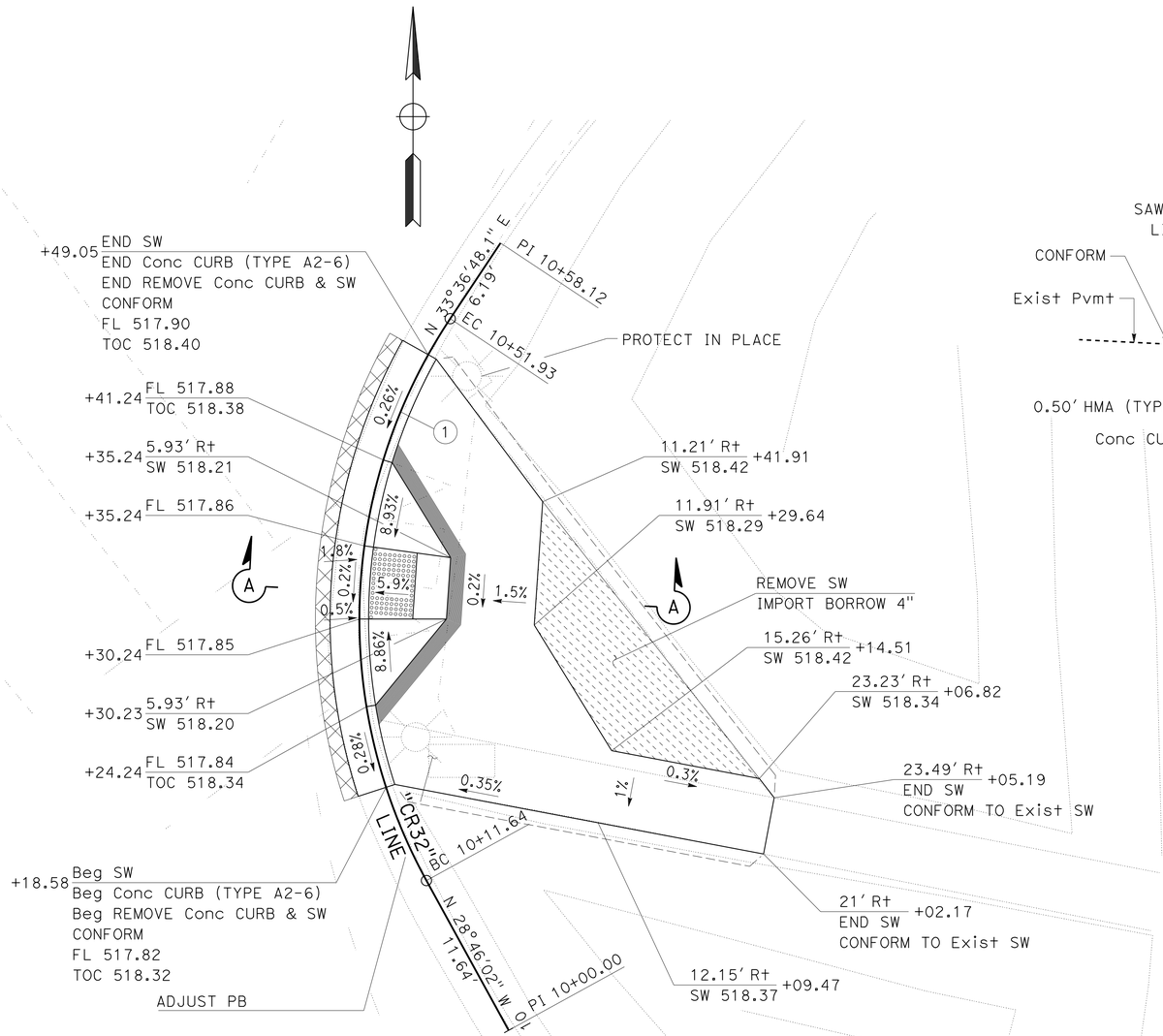
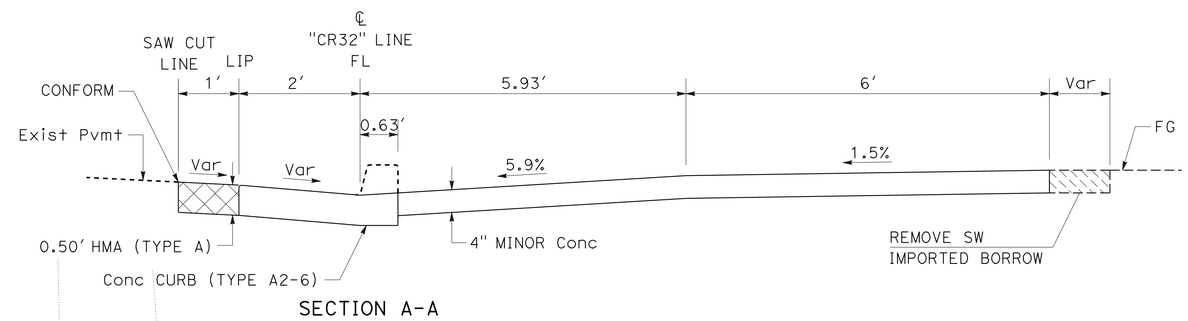
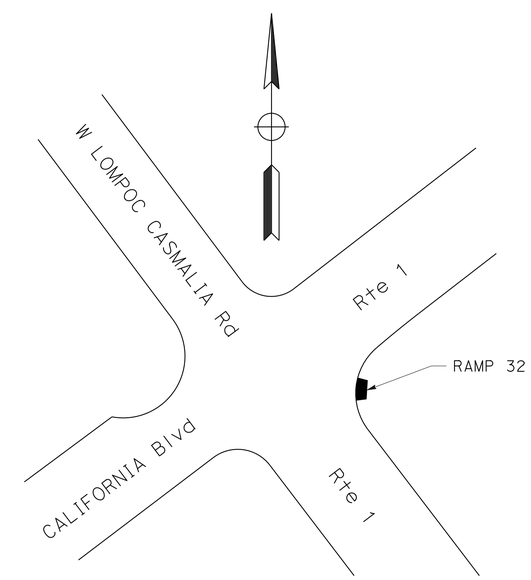




SECTION A-A



LOCATION DETAIL

CURB RAMP No. 32, PM 29.9
CASE A
ROUTE 1 AND LOMPOC CASMALIA Rd/CALIFORNIA Blvd
LOMPOC

CONSTRUCTION DETAILS

NO SCALE

C-21

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
06-DESIGN

FUNCTIONAL SUPERVISOR: SCOTT SHAVER
CALCULATED-DESIGNED BY: ALEJANDRO CORREA
CHECKED BY: SCOTT SHAVER
REVISED BY
DATE REVISED

LAST REVISION 04-15-14
DATE PLOTTED => 25-AUG-2014
TIME PLOTTED => 17:52

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	SB	1,101, 192,246	Var	23	66

REGISTERED CIVIL ENGINEER 5-21-14 DATE

5-27-14
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER SCOTT A. SHAVER No. 42946 Exp. 3-31-16 CIVIL STATE OF CALIFORNIA

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NOTE:

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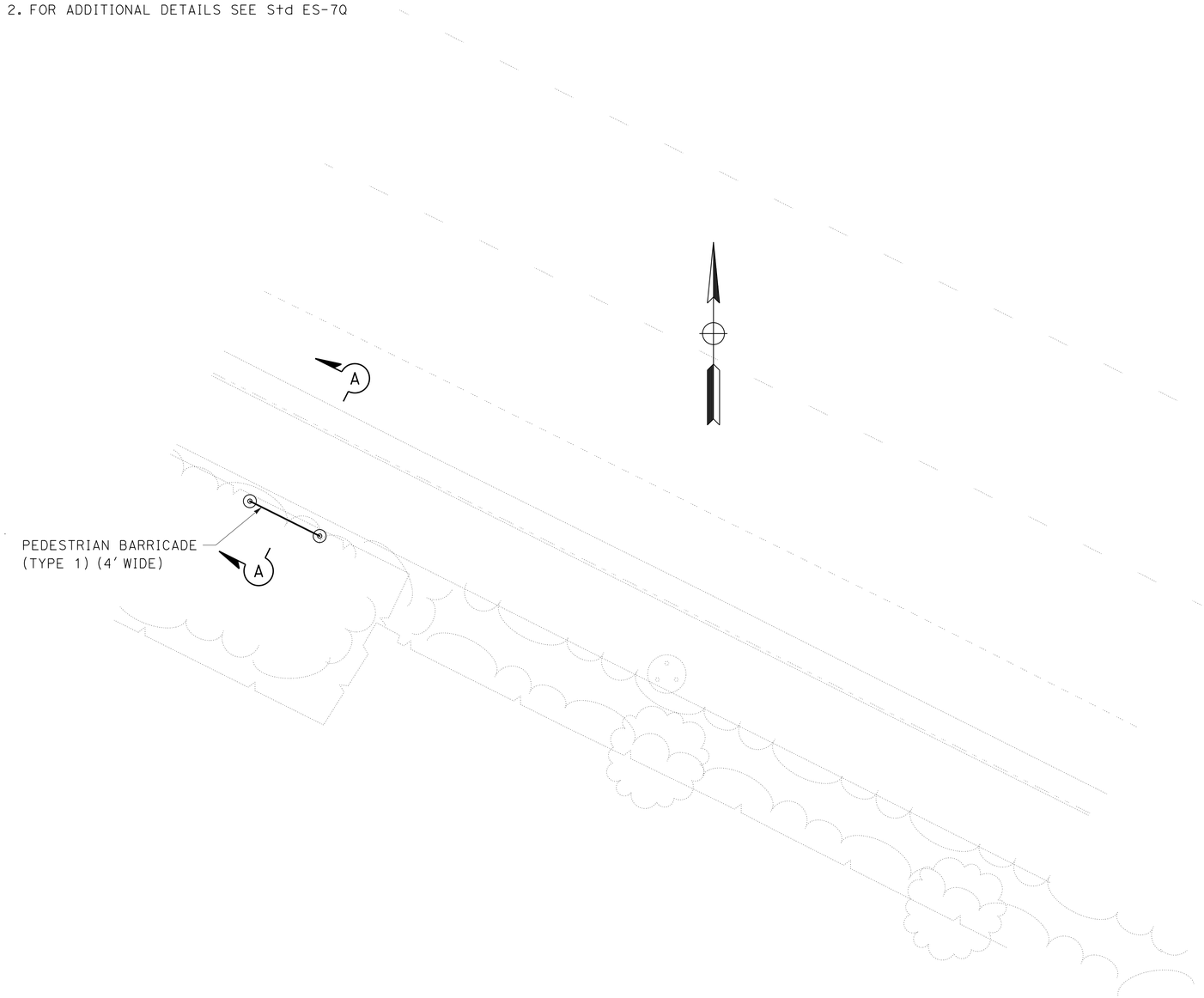
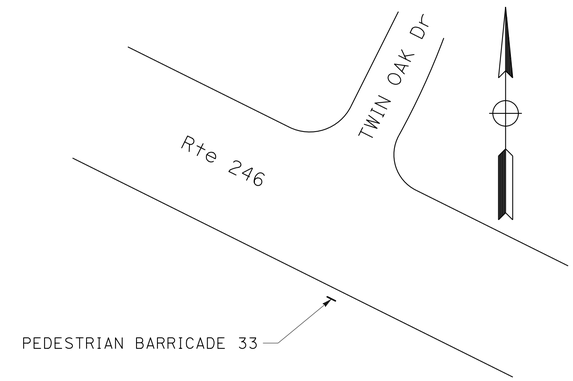
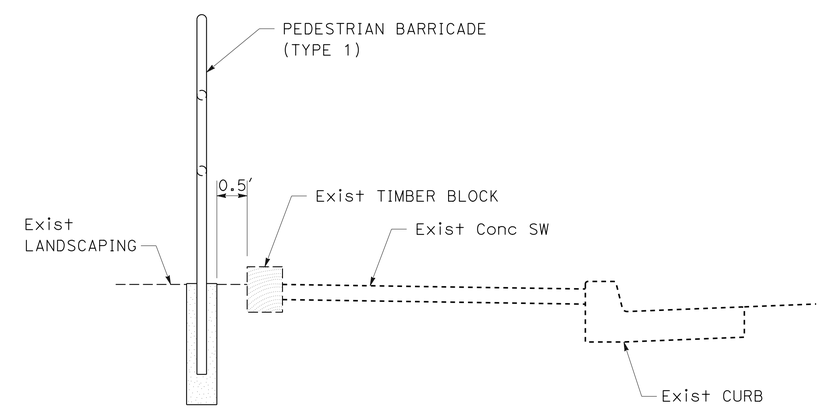
2. FOR ADDITIONAL DETAILS SEE Std ES-7Q





LOCATION DETAIL



SECTION A-A

PEDESTRIAN BARRICADE No. 33, PM R25.6
ROUTE 246 AND TWIN OAK Dr
BUELLTON

CONSTRUCTION DETAILS

NO SCALE

C-22

REVISED BY	DATE REVISED

CALCULATED-DESIGNED BY	GILBERTO BACA
CHECKED BY	SCOTT SHAVER
FUNCTIONAL SUPERVISOR	SCOTT SHAVER

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
06-DESIGN

LAST REVISION 05-08-14 | DATE PLOTTED => 25-AUG-2014 | TIME PLOTTED => 17:52

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	SB	1,101, 192,246	Var	24	66

REGISTERED CIVIL ENGINEER 5-21-14 DATE

5-27-14
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER SCOTT A. SHAVER No. 42946 Exp. 3-31-16 CIVIL STATE OF CALIFORNIA

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NOTE:

FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.

CURVE DATA

No.	R	Δ	T	L
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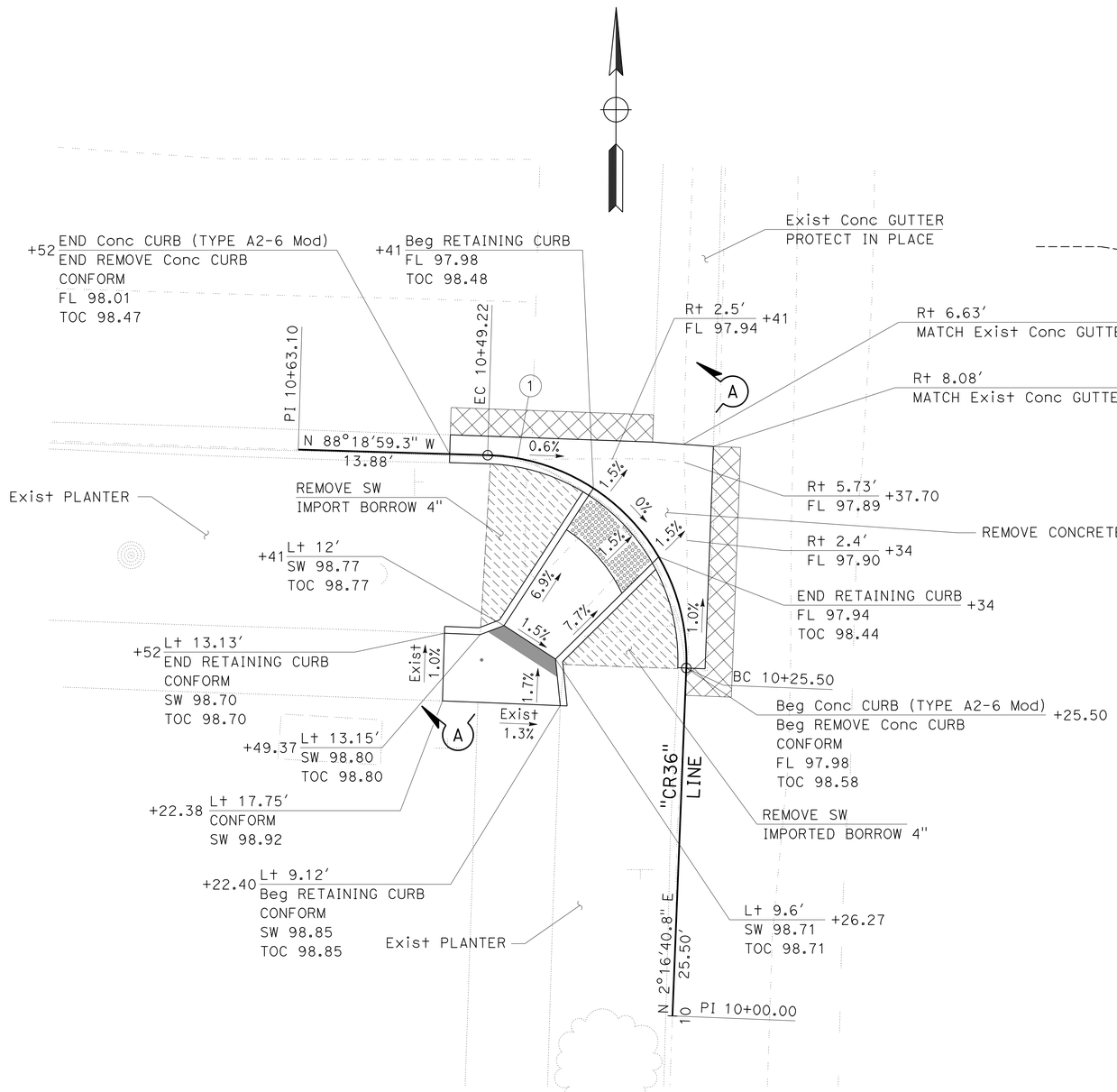
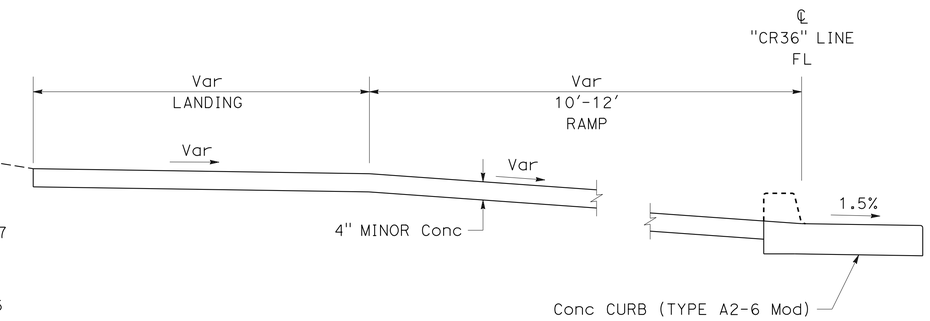
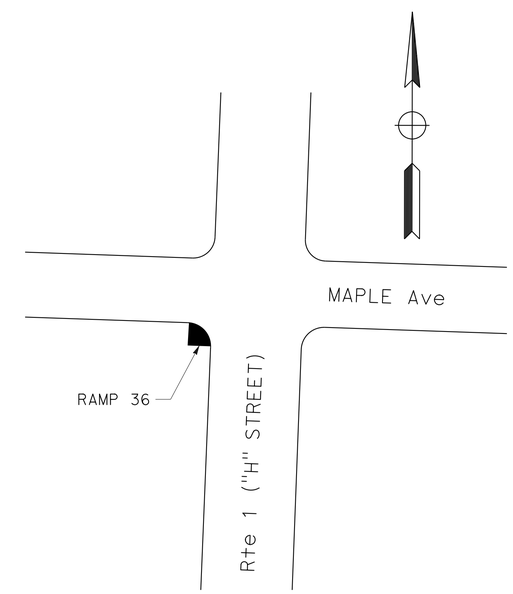




SECTION A-A



LOCATION DETAIL

CURB RAMP No. 34, PM 21.0
CASE F
ROUTE 1 AND MAPLE Ave
LOMPOC

CONSTRUCTION DETAILS

NO SCALE

C-23

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
06-DESIGN

FUNCTIONAL SUPERVISOR: SCOTT SHAVER
CALCULATED-DESIGNED BY: GILBERTO BACA
CHECKED BY: SCOTT SHAVER
REVISED BY
DATE REVISED

LAST REVISION 04-15-14
DATE PLOTTED => 25-AUG-2014
TIME PLOTTED => 17:52

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	SB	1,101, 192,246	Var	25	66

REGISTERED CIVIL ENGINEER 5-21-14 DATE

5-27-14
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER SCOTT A. SHAVER No. 42946 Exp. 3-31-16 CIVIL STATE OF CALIFORNIA

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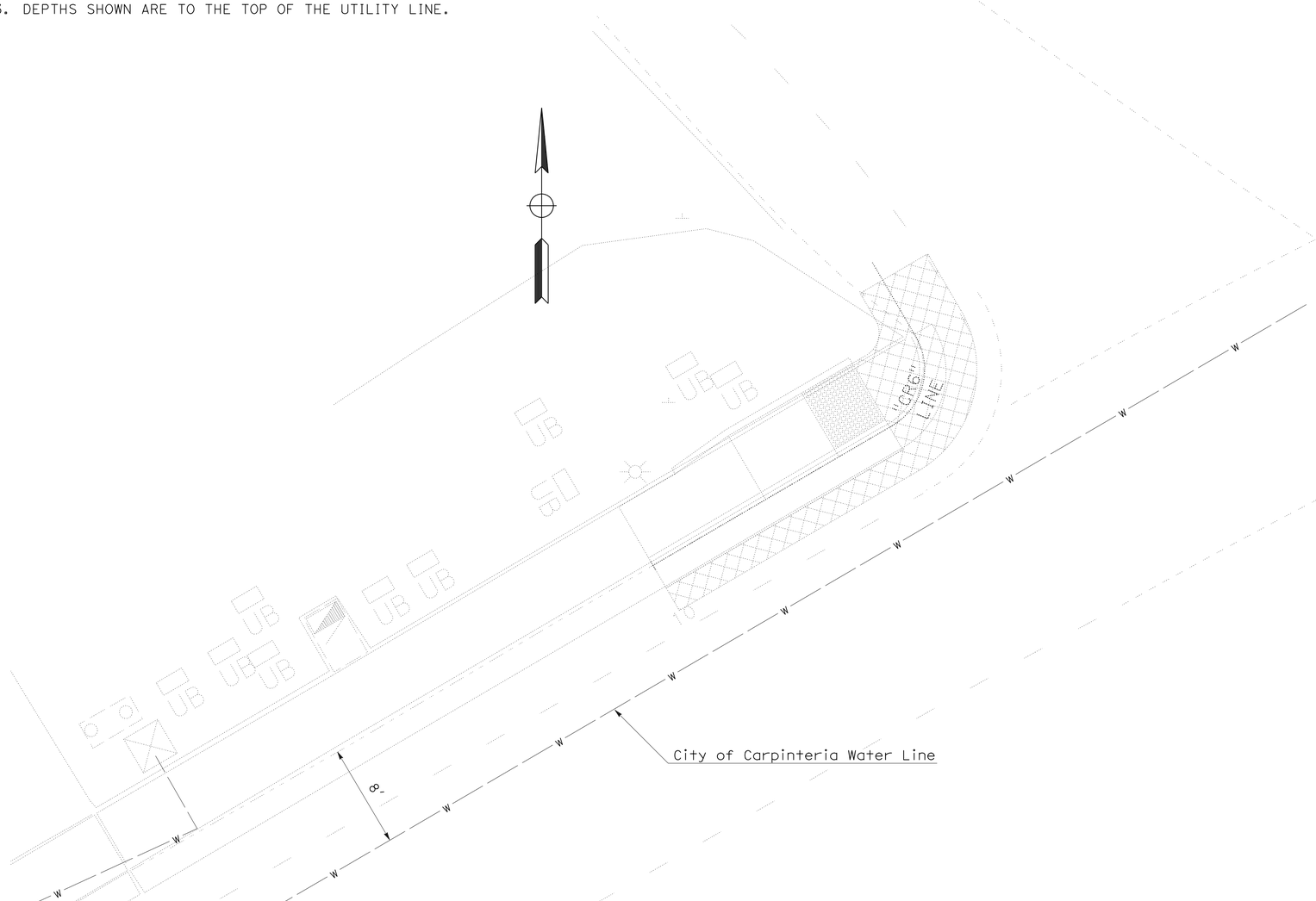
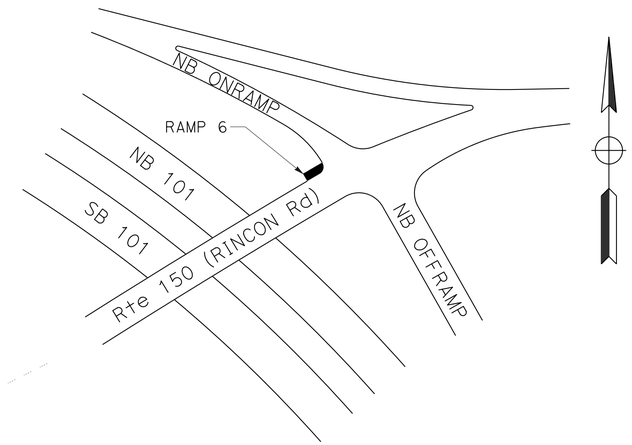
NOTES:

1. FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.
2. LOCATION OF UTILITY FACILITIES SHOWN ON THESE PLANS ARE APPROXIMATE AND SHALL BE VERIFIED PRIOR TO CONSTRUCTION.
3. DEPTHS SHOWN ARE TO THE TOP OF THE UTILITY LINE.





LOCATION DETAIL

CURB RAMP No. 6, PM R0.8
BLENDED TRANSITION
Rte 101 AND Rte 150 (RINCON Rd)/NB ONRAMP
CARPINTERIA

APPROVED FOR UTILITY INFORMATION ONLY

UTILITY PLAN

SCALE 1"=5'

U-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
06-DESIGN

FUNCTIONAL SUPERVISOR: SCOTT SHAVER
CALCULATED-DESIGNED BY: GILBERTO BACA
CHECKED BY
REVISED BY
DATE REVISED

LAST REVISION 05-15-14 | DATE PLOTTED => 25-AUG-2014 | TIME PLOTTED => 17:52

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	SB	1,101, 192,246	Var	26	66

REGISTERED CIVIL ENGINEER 5-21-14 DATE

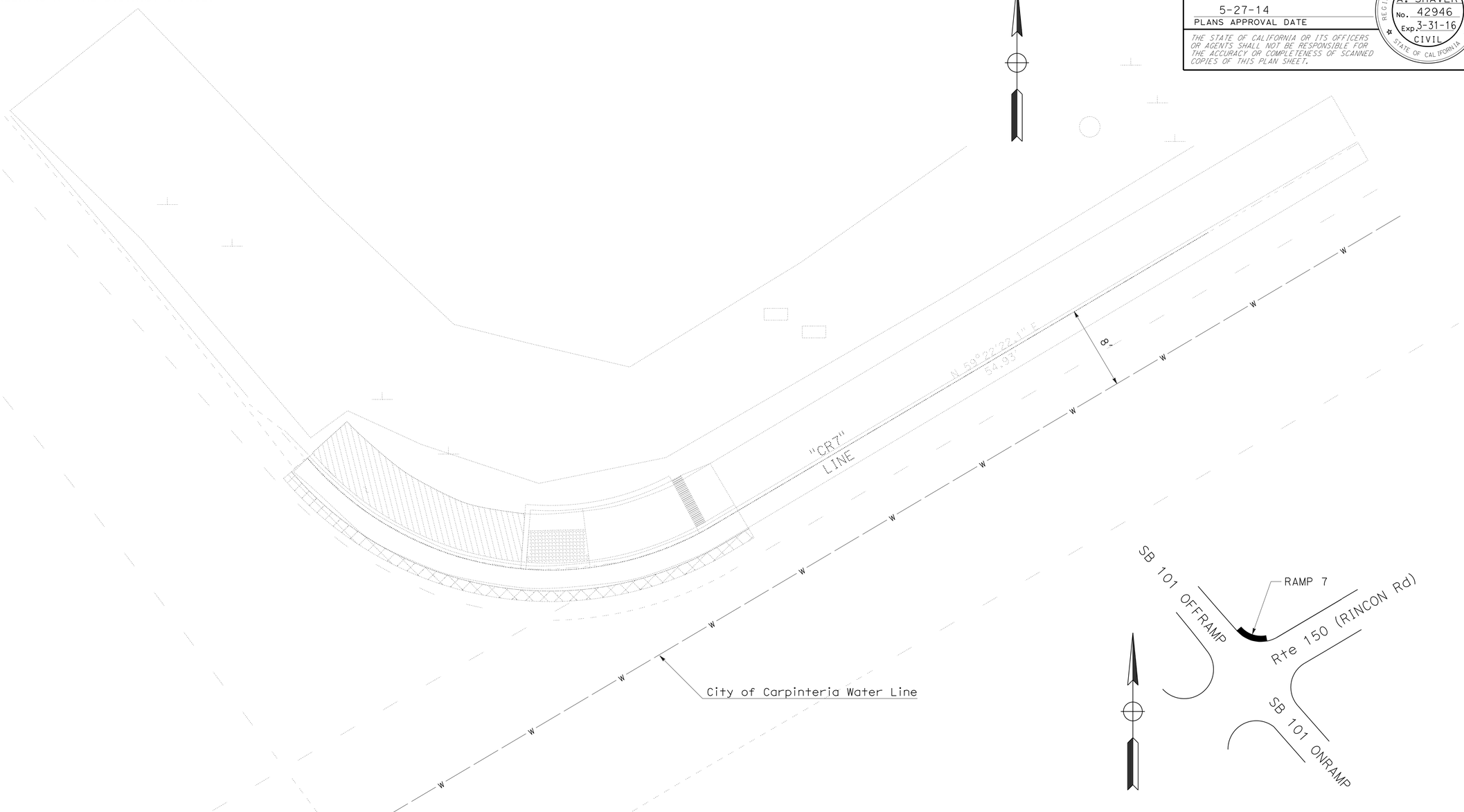
5-27-14
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
SCOTT A. SHAVER
No. 42946
Exp. 3-31-16
CIVIL
STATE OF CALIFORNIA

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

NOTE:

FOR ACCURATE RIGHT OF WAY DATA, CONTACT
RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.



LOCATION DETAIL

CURB RAMP No. 7, PM R0.8
CASE C Mod
Rte 101 AND Rte 150 (RINCON Rd)/SB OFFRAMP
CARPINTERIA

UTILITY PLAN

SCALE 1"=5'

U-2

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
06-DESIGN

FUNCTIONAL SUPERVISOR: SCOTT SHAVER

CALCULATED-DESIGNED BY
CHECKED BY

REVISED BY
DATE REVISED

WAFAA SIQUEIROS

LAST REVISION 05-09-14
DATE PLOTTED => 25-AUG-2014
TIME PLOTTED => 17:52

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	SB	1,101, 192,246	Var	27	66

REGISTERED CIVIL ENGINEER 5-21-14 DATE

5-27-14
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER SCOTT A. SHAVER No. 42946 Exp. 3-31-16 CIVIL STATE OF CALIFORNIA

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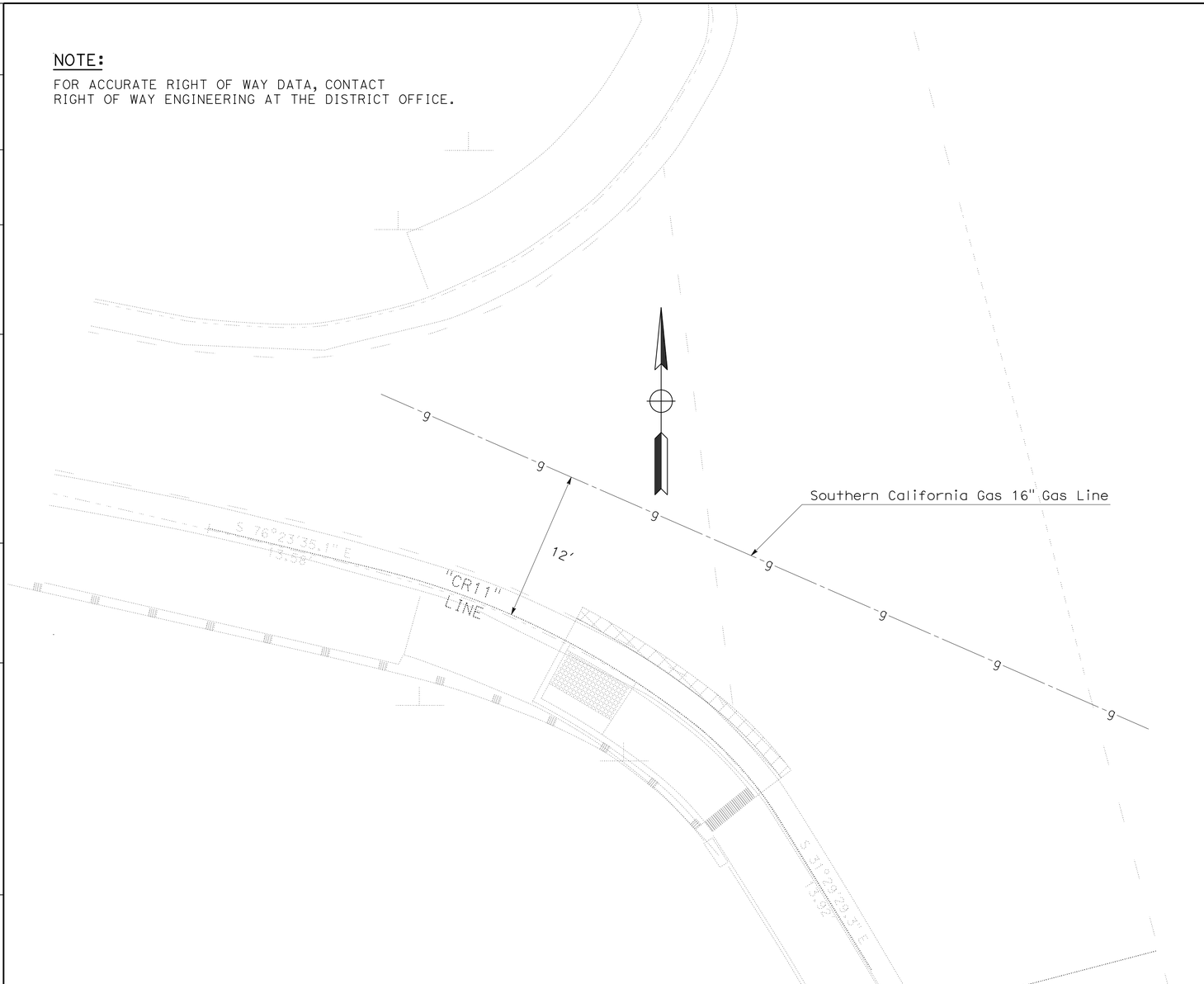
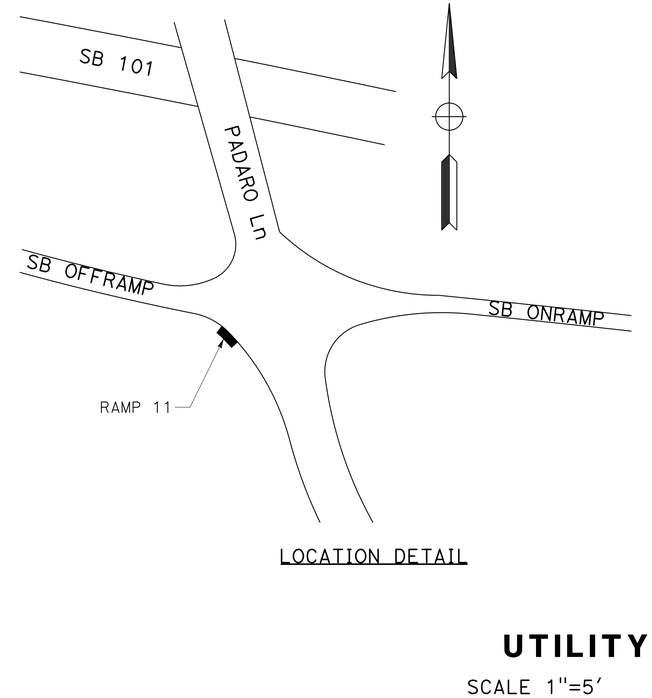
NOTE:

FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.





LOCATION DETAIL

CURB RAMP No. 11, PM R7.1
CASE C
ROUTE 101 AND PADARO Ln/SB OFF-RAMP
SUMMERLAND

APPROVED FOR UTILITY INFORMATION ONLY

UTILITY PLAN

SCALE 1"=5'

U-3

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
06-DESIGN

FUNCTIONAL SUPERVISOR: SCOTT SHAVER
CALCULATED-DESIGNED BY: GILBERTO BACA
CHECKED BY
REVISED BY
DATE REVISED

LAST REVISION 05-09-14
DATE PLOTTED => 25-AUG-2014
TIME PLOTTED => 17:52

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	SB	1,101, 192,246	Var	28	66

REGISTERED CIVIL ENGINEER 5-21-14 DATE

5-27-14
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER SCOTT A. SHAVER No. 42946 Exp. 3-31-16 CIVIL STATE OF CALIFORNIA

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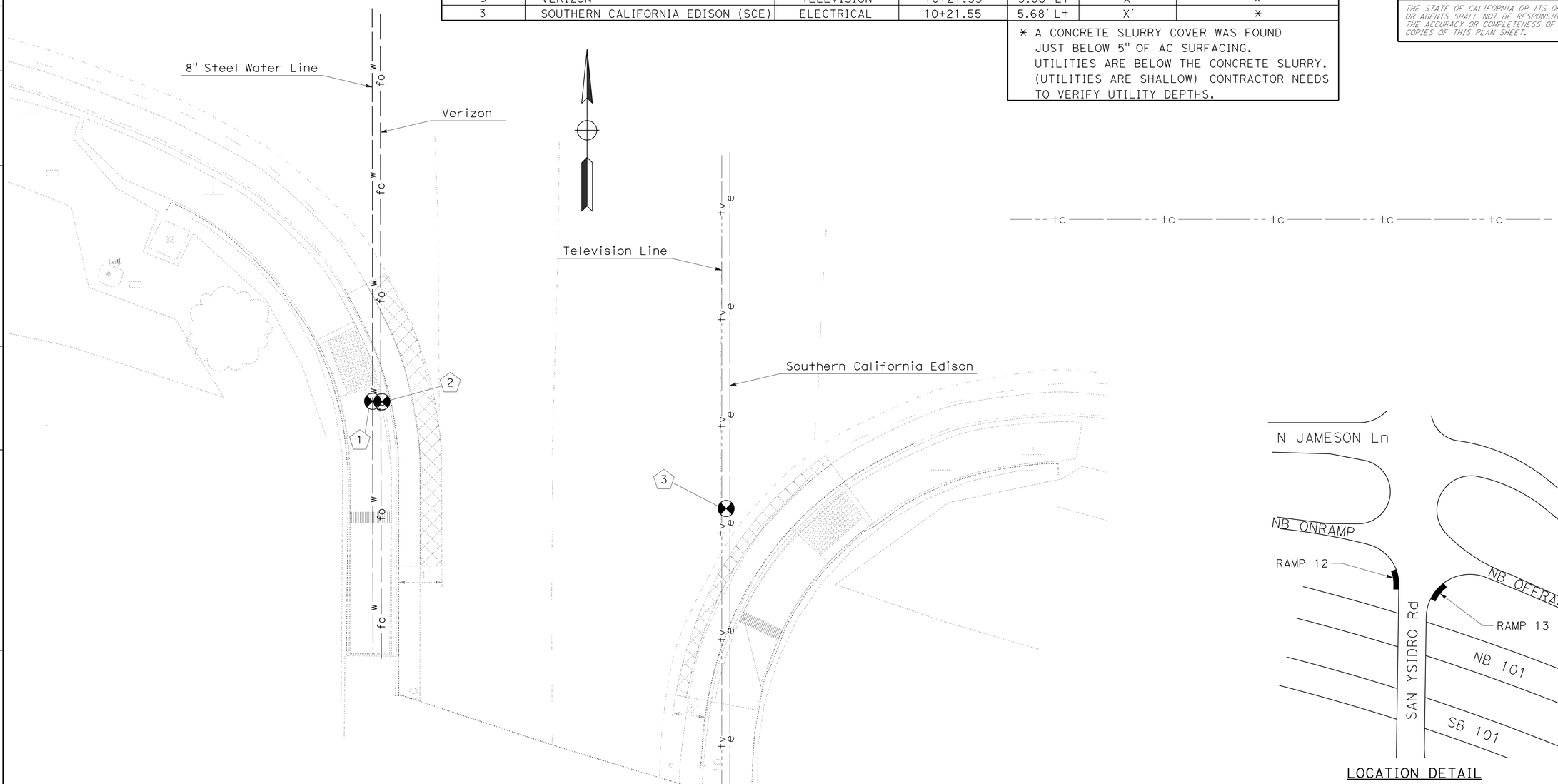
NOTE:

FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.

POTHOLING INFORMATION

(X)	UTILITY OWNER	DESCRIPTION	STATION	OFFSET	ELEVATION	DEPTH
1	SANTA BARBARA COUNTY	8" STEEL WATER	10+27.44	1.69' Lt	X'	45"
2	VERIZON	FIBER OPTIC	10+27.25	0.95' Lt	X'	41.5"
3	VERIZON	TELEVISION	10+21.55	5.68' Lt	X'	*
3	SOUTHERN CALIFORNIA EDISON (SCE)	ELECTRICAL	10+21.55	5.68' Lt	X'	*

* A CONCRETE SLURRY COVER WAS FOUND JUST BELOW 5" OF AC SURFACING. UTILITIES ARE BELOW THE CONCRETE SLURRY. (UTILITIES ARE SHALLOW) CONTRACTOR NEEDS TO VERIFY UTILITY DEPTHS.



LOCATION DETAIL

CURB RAMP No. 12 AND 13, PM 9.8
CASE C Mod
ROUTE 101 AND SAN YSIDRO Rd/NB RAMPS
SANTA BARBARA

APPROVED FOR UTILITY INFORMATION ONLY

UTILITY PLAN

SCALE 1"=5'

U-4

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
06-DESIGN
FUNCTIONAL SUPERVISOR: SCOTT SHAVER
CALCULATED-DESIGNED BY: ALEJANDRO CORREA
CHECKED BY
REVISED BY
DATE REVISED

LAST REVISION 05-09-14
DATE PLOTTED => 25-AUG-2014
TIME PLOTTED => 17:52

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	SB	1,101, 192,246	Var	29	66

REGISTERED CIVIL ENGINEER 5-21-14 DATE

5-27-14
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER SCOTT A. SHAVER No. 42946 Exp. 3-31-16 CIVIL STATE OF CALIFORNIA

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

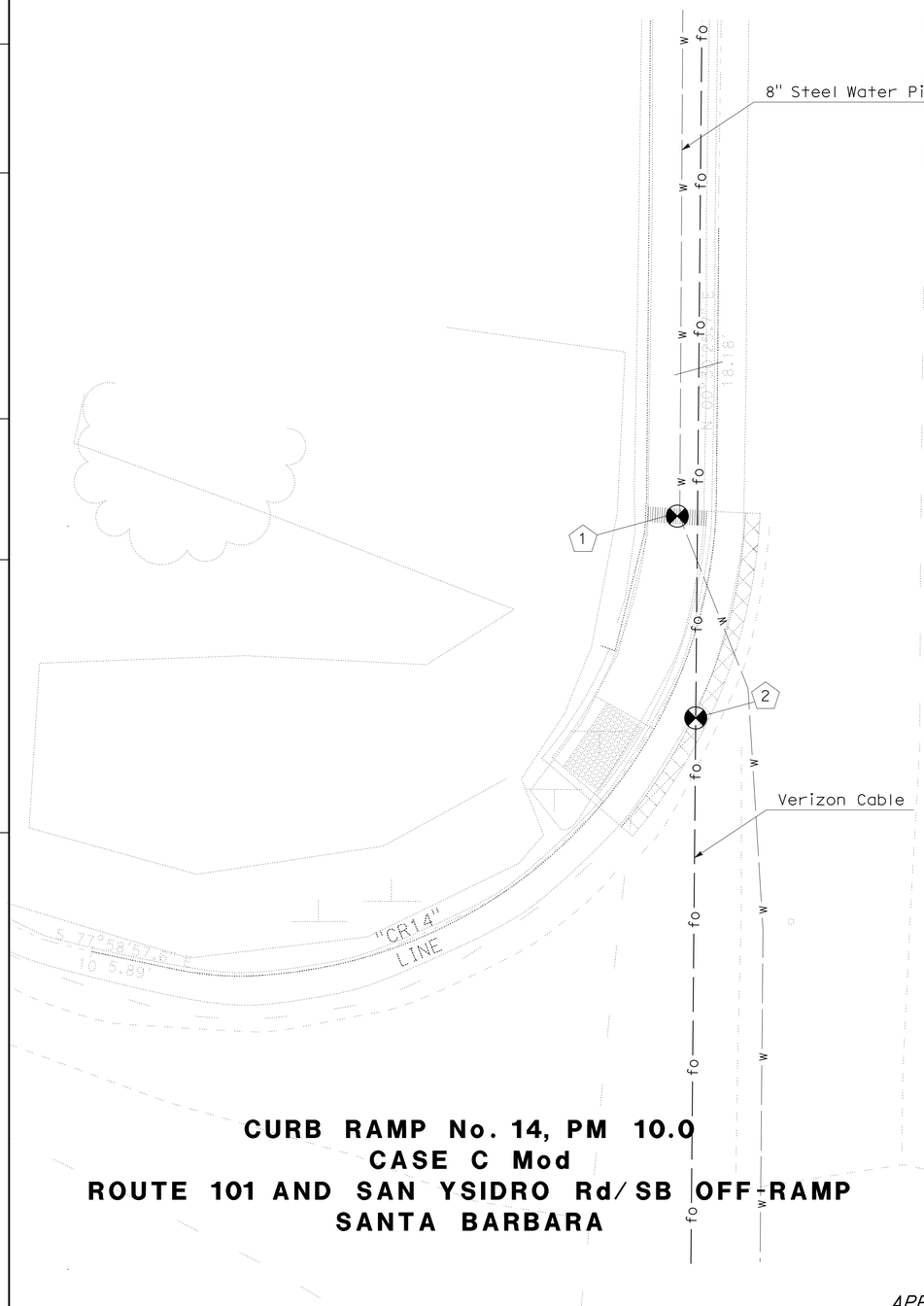
POTHOLING INFORMATION

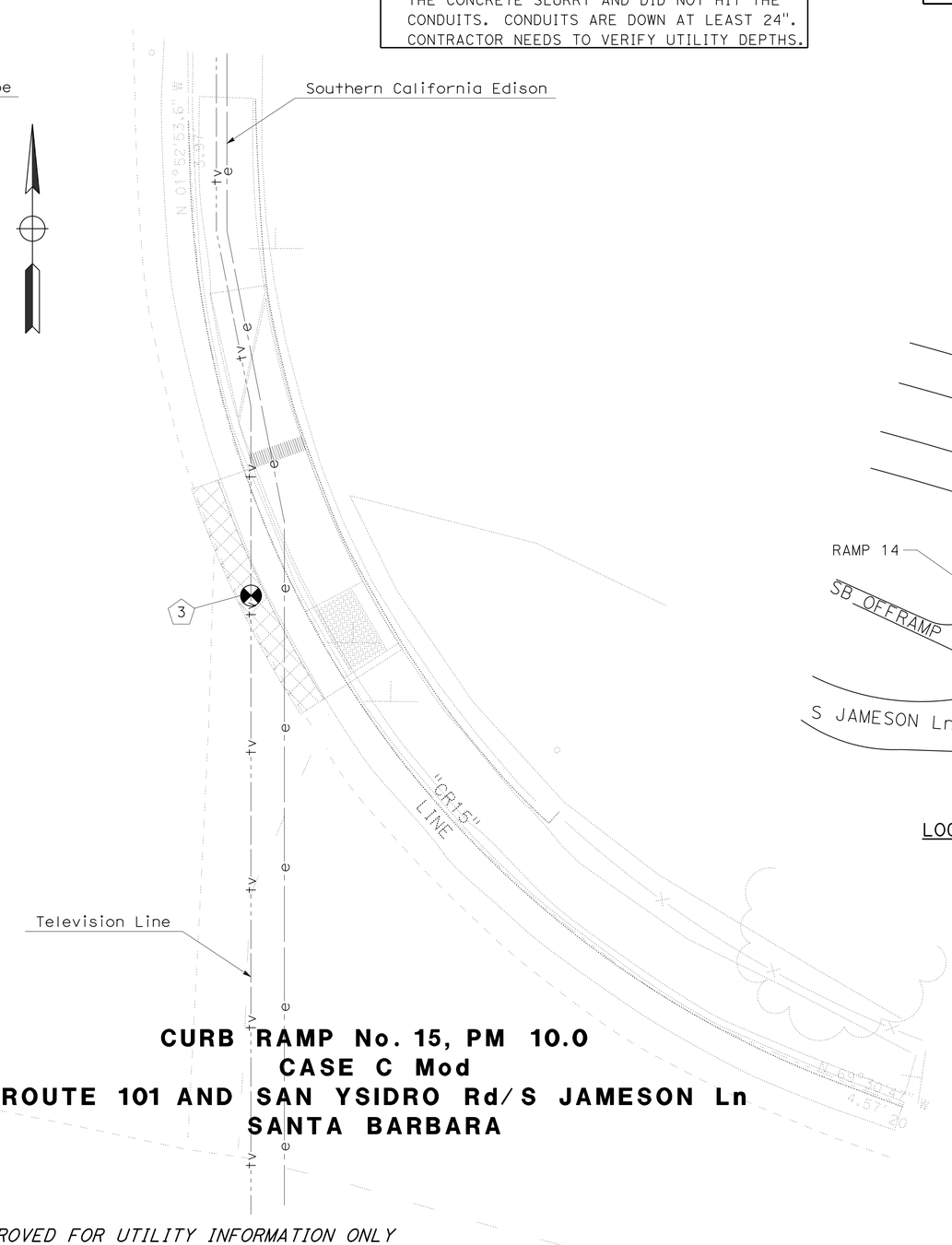
NOTE:

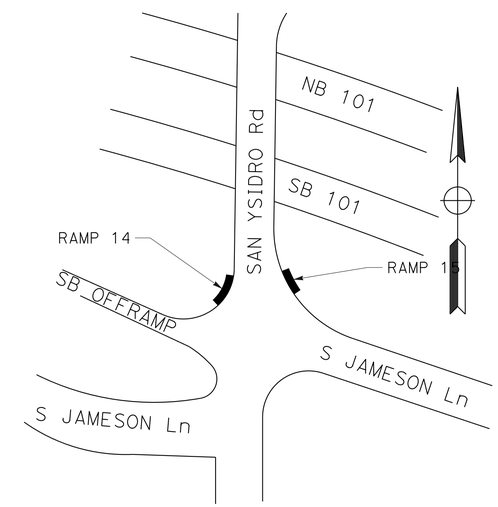
FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.

X	UTILITY OWNER	DESCRIPTION	STATION	OFFSET	ELEVATION	DEPTH
1	SANTA BARBARA COUNTY	8" STEEL WATER	10+59.49	2.58' Lt	X'	30"
2	VERIZON	FIBER OPTIC	10+46.18	2.30' Rt	X'	32"
3	VERIZON	TELEVISION	20+59.74	2.97' Lt	X'	*

* A CONCRETE SLURRY COVER WAS FOUND JUST BELOW 4" OF AC SURFACING. DUG 20" THROUGH THE CONCRETE SLURRY AND DID NOT HIT THE CONDUITS. CONDUITS ARE DOWN AT LEAST 24". CONTRACTOR NEEDS TO VERIFY UTILITY DEPTHS.







LOCATION DETAIL

CURB RAMP No. 14, PM 10.0
CASE C Mod
ROUTE 101 AND SAN YSIDRO Rd/SB OFF-RAMP
SANTA BARBARA

CURB RAMP No. 15, PM 10.0
CASE C Mod
ROUTE 101 AND SAN YSIDRO Rd/S JAMESON Ln
SANTA BARBARA

APPROVED FOR UTILITY INFORMATION ONLY

UTILITY PLAN

SCALE 1"=5'

U-5

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
06-DESIGN

FUNCTIONAL SUPERVISOR: SCOTT SHAVER
CALCULATED-DESIGNED BY: ALEJANDRO CORREA
CHECKED BY
REVISED BY
DATE REVISED

LAST REVISION 05-12-14
DATE PLOTTED => 25-AUG-2014
TIME PLOTTED => 17:52

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	SB	1,101, 192,246	Var	30	66

REGISTERED CIVIL ENGINEER 5-21-14 DATE

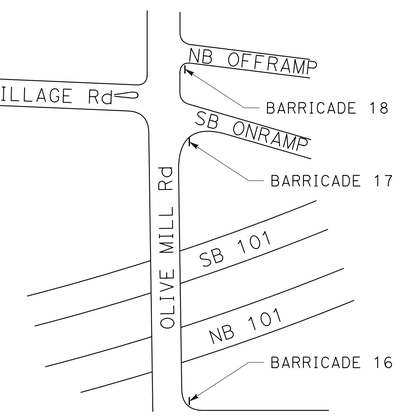
5-27-14
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
SCOTT A. SHAVER
No. 42946
Exp. 3-31-16
CIVIL
STATE OF CALIFORNIA

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

NOTE:

1. FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.
2. FOR ADDITIONAL DETAILS, SEE Std ES-7Q.



LOCATION DETAIL

BARRICADES No.16,17,18, PM 10.5
ROUTE 101 AND OLIVE MILL RD/SB ON-RAMP AND NB OFF-RAMP
SANTA BARBARA

APPROVED FOR UTILITY INFORMATION ONLY

UTILITY PLAN
SCALE 1"=5'
U-6

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
06-DESIGN

FUNCTIONAL SUPERVISOR: SCOTT SHAVER
CALCULATED-DESIGNED BY: GILBERTO BACA
CHECKED BY
REVISED BY
DATE REVISED

LAST REVISION 05-12-14
DATE PLOTTED => 25-AUG-2014
TIME PLOTTED => 17:52

BORDER LAST REVISED 7/2/2010
USERNAME => s115755
DGN FILE => 0500000398ka006.dgn
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
UNIT 1464
PROJECT NUMBER & PHASE 05000003981

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	SB	1,101, 192,246	Var	31	66

REGISTERED CIVIL ENGINEER 5-21-14 DATE

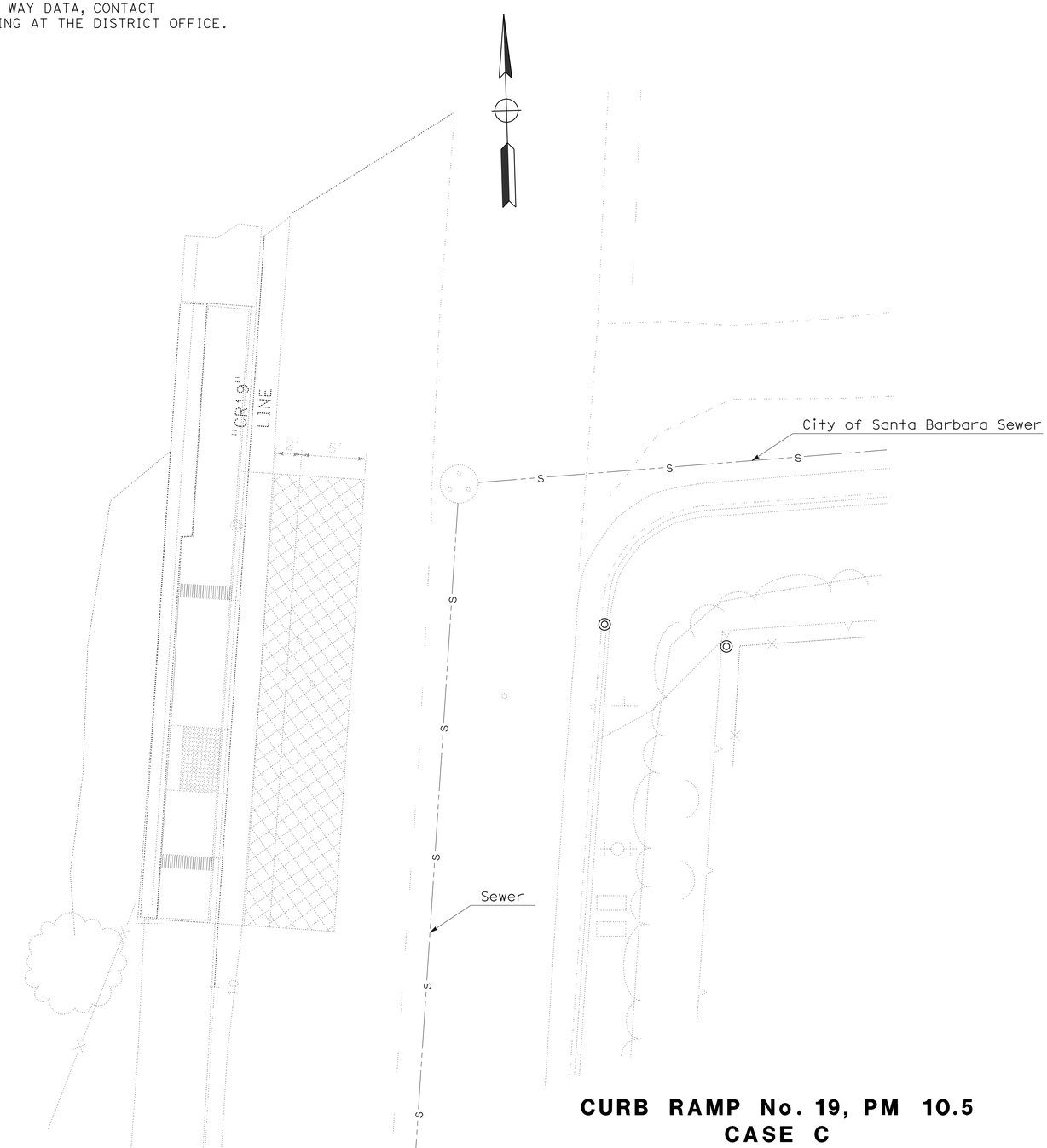
5-27-14
PLANS APPROVAL DATE

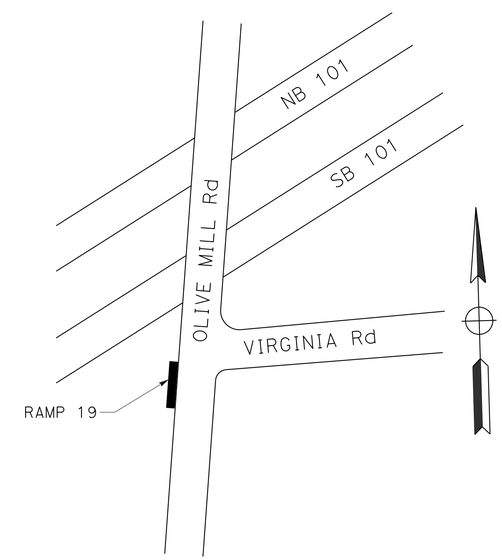
REGISTERED PROFESSIONAL ENGINEER SCOTT A. SHAVER No. 42946 Exp. 3-31-16 CIVIL STATE OF CALIFORNIA

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

NOTE:

FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.





LOCATION DETAIL

CURB RAMP No. 19, PM 10.5
CASE C
ROUTE 101 AND OLIVE MILL RD/VIRGINIA RD
SANTA BARBARA

APPROVED FOR UTILITY INFORMATION ONLY

UTILITY PLAN

SCALE 1"=5'

U-7

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
06-DESIGN

FUNCTIONAL SUPERVISOR: SCOTT SHAVER
CALCULATED-DESIGNED BY
CHECKED BY
GILBERTO BACA
REVISED BY
DATE REVISED

LAST REVISION 05-12-14
DATE PLOTTED => 25-AUG-2014
TIME PLOTTED => 17:52

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	SB	1,101, 192,246	Var	32	66

REGISTERED CIVIL ENGINEER 5-21-14 DATE

5-27-14
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER SCOTT A. SHAVER No. 42946 Exp. 3-31-16 CIVIL STATE OF CALIFORNIA

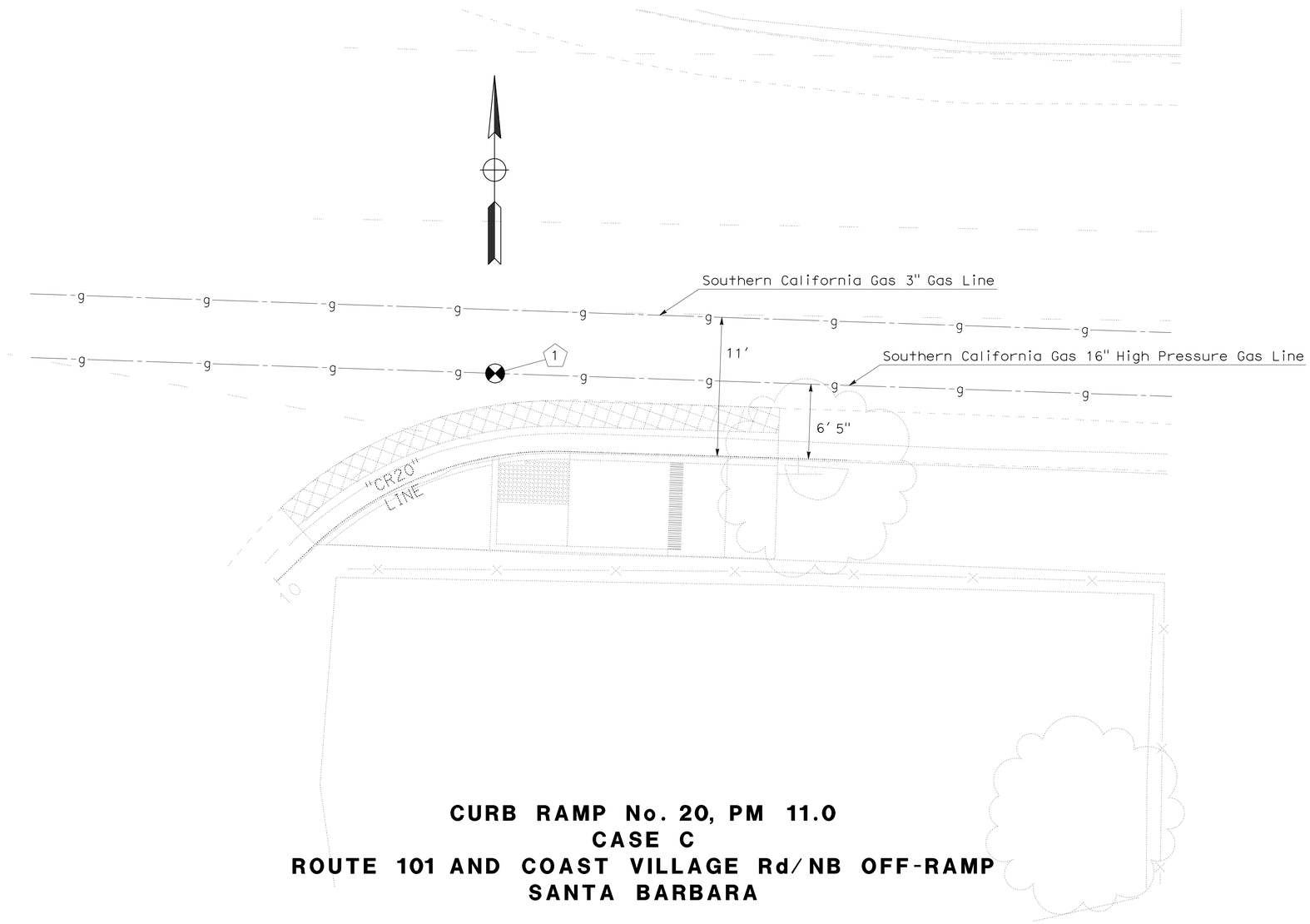
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

POTHOLING INFORMATION

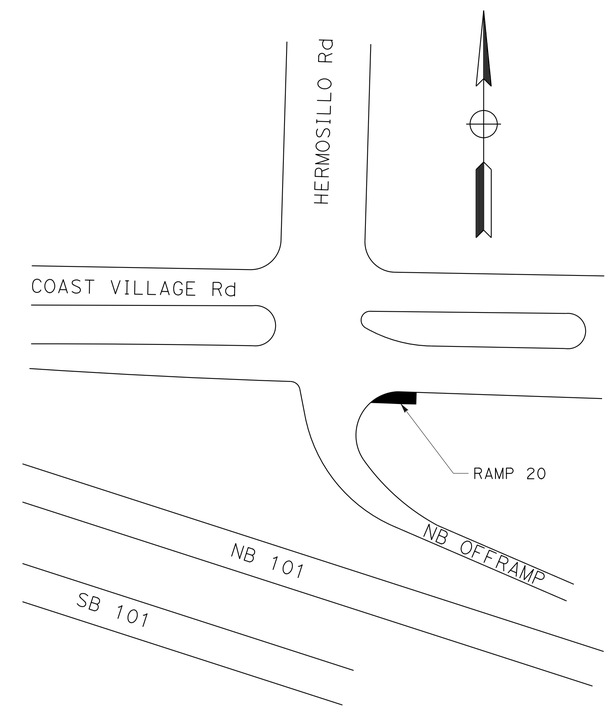
NOTE:

FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.

X	UTILITY OWNER	DESCRIPTION	STATION	OFFSET	ELEVATION	DEPTH
1	SOUTHERN CALIFORNIA GAS	16" HIGH PRESSURE GAS LINE	10+21.25	6.50' Lt	X'	37"



CURB RAMP No. 20, PM 11.0
CASE C
ROUTE 101 AND COAST VILLAGE Rd/NB OFF-RAMP
SANTA BARBARA



LOCATION DETAIL

APPROVED FOR UTILITY INFORMATION ONLY

UTILITY PLAN
SCALE 1"=5'
U-8

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
06-DESIGN
FUNCTIONAL SUPERVISOR: SCOTT SHAVER
CALCULATED-DESIGNED BY: ALEJANDRO CORREA
CHECKED BY
REVISED BY
DATE REVISED

LAST REVISION 05-12-14
DATE PLOTTED => 25-AUG-2014
TIME PLOTTED => 17:52

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	SB	1,101, 192,246	Var	33	66

REGISTERED CIVIL ENGINEER 5-21-14 DATE

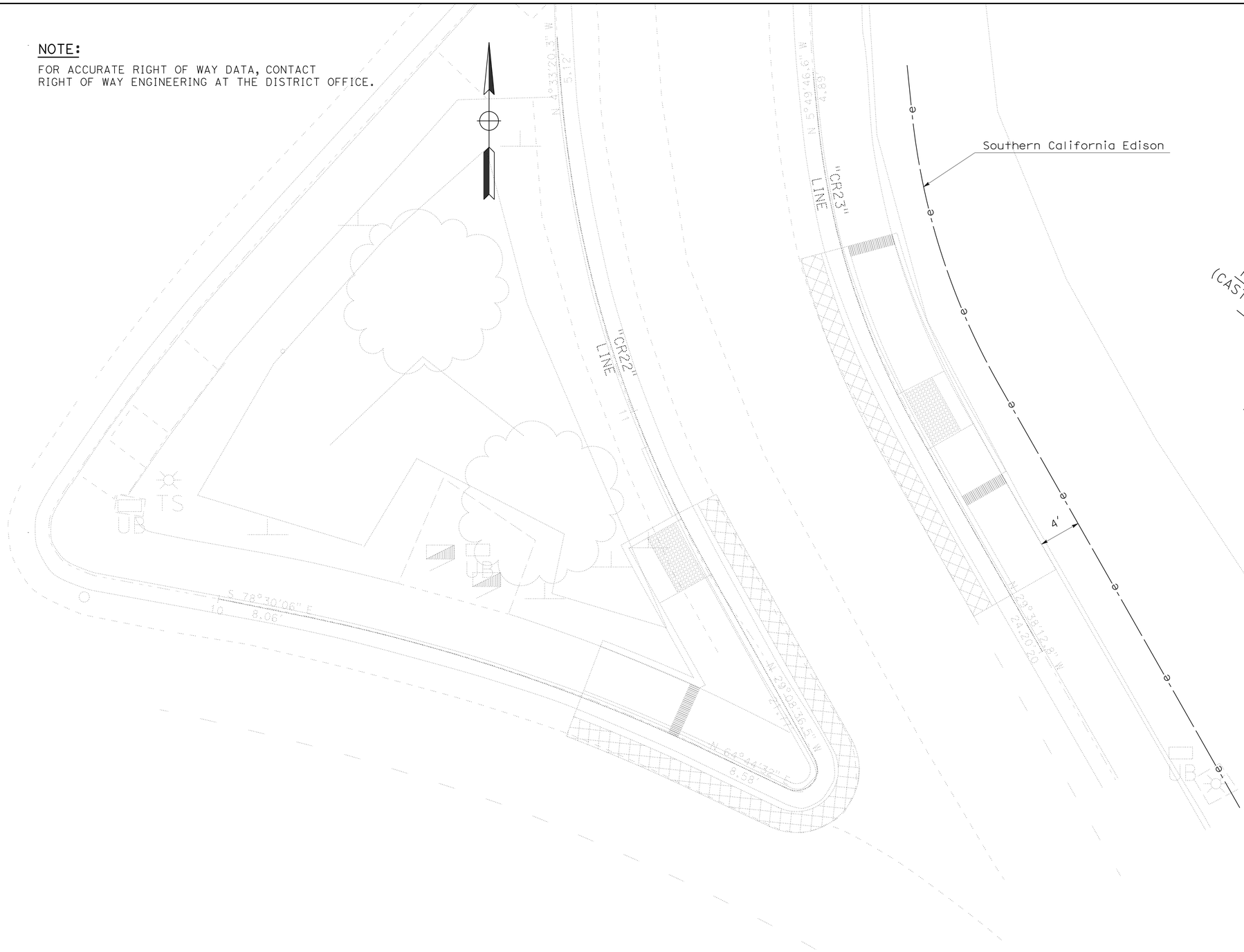
5-27-14
PLANS APPROVAL DATE

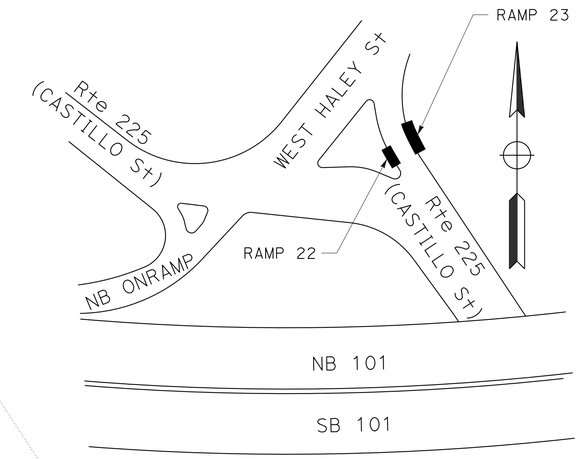
REGISTERED PROFESSIONAL ENGINEER SCOTT A. SHAVER No. 42946 Exp. 3-31-16 CIVIL STATE OF CALIFORNIA

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

NOTE:

FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.





LOCATION DETAIL

CURB RAMPS No. 22 AND No. 23, PM 14.2
CASE C Mod AND CASE C
ROUTE 101 AND ROUTE 225
(CASTILLO St)/WEST HALEY St
SANTA BARBARA

UTILITY PLAN

SCALE 1"=5'

U-9

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
06-DESIGN

FUNCTIONAL SUPERVISOR: SCOTT SHAVER
CALCULATED-DESIGNED BY: ALEJANDRO CORREA
CHECKED BY
REVISED BY
DATE REVISED

LAST REVISION 05-12-14
DATE PLOTTED => 25-AUG-2014
TIME PLOTTED => 17:52

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	SB	1,101, 192,246	Var	34	66

REGISTERED CIVIL ENGINEER 5-21-14 DATE

5-27-14
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER SCOTT A. SHAVER No. 42946 Exp. 3-31-16 CIVIL STATE OF CALIFORNIA

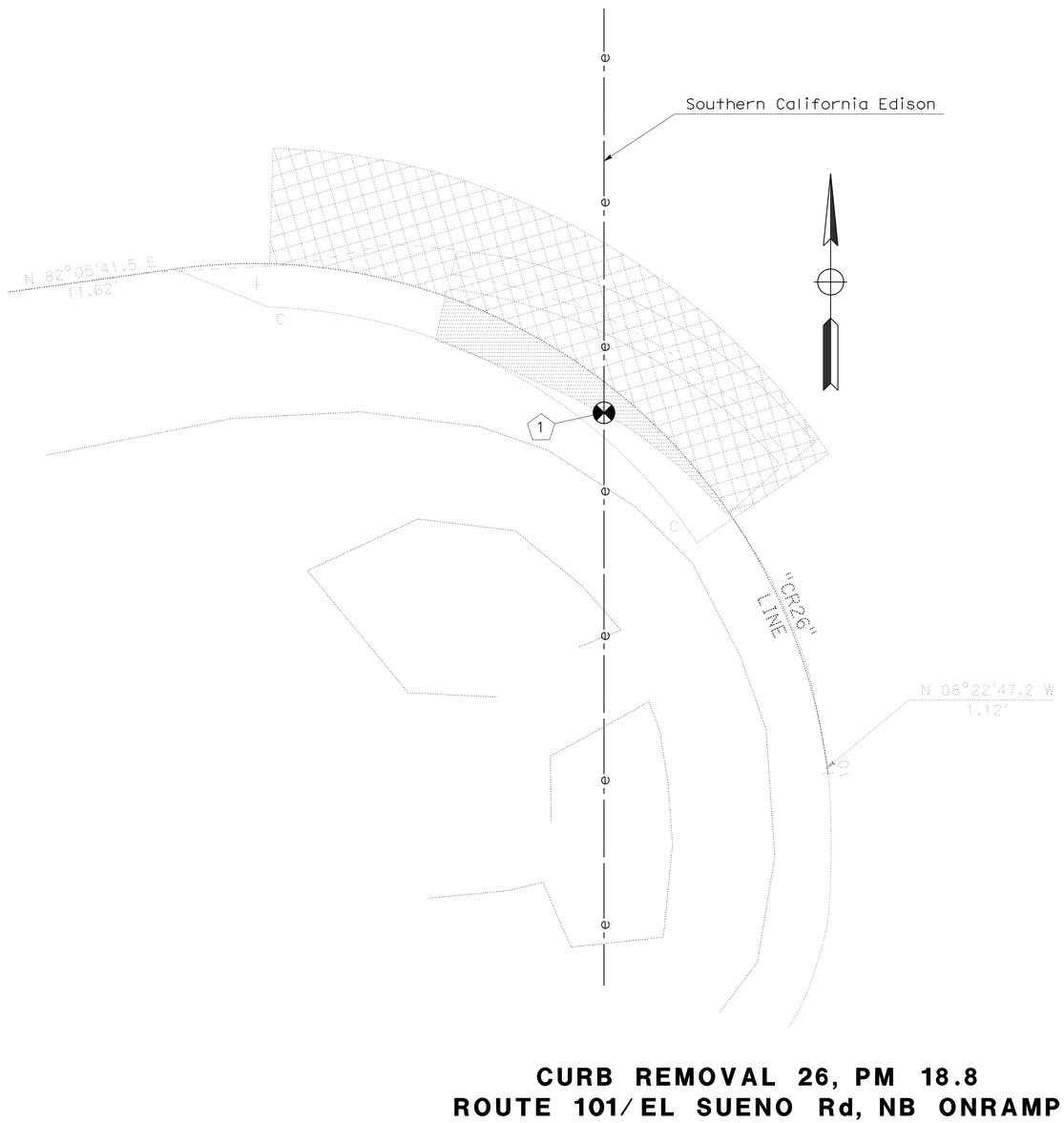
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

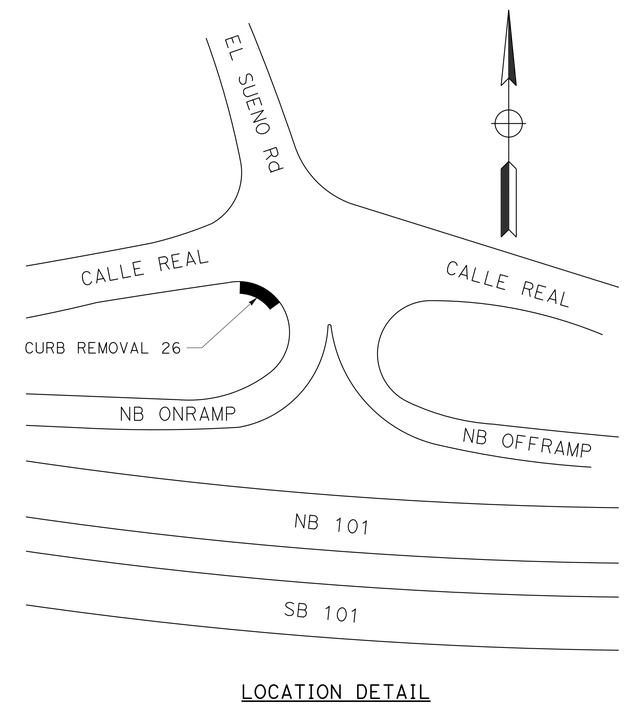
NOTE:

FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.

POTHOLING INFORMATION

X	UTILITY OWNER	DESCRIPTION	STATION	OFFSET	ELEVATION	DEPTH
1	SOUTHERN CALIFORNIA EDISON	3" METAL LINE	10+30.71	1.69' Lt	X'	33"





LOCATION DETAIL

CURB REMOVAL 26, PM 18.8
ROUTE 101/EL SUENO Rd, NB ONRAMP

APPROVED FOR UTILITY INFORMATION ONLY

UTILITY PLAN

SCALE 1"=5'

U-10

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
06-DESIGN

FUNCTIONAL SUPERVISOR: SCOTT SHAVER
CALCULATED-DESIGNED BY: GILBERTO BACA
CHECKED BY
REVISED BY
DATE REVISED

LAST REVISION 05-12-14 | DATE PLOTTED => 25-AUG-2014 | TIME PLOTTED => 17:52

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	SB	1,101, 192,246	Var	35	66

REGISTERED CIVIL ENGINEER 5-21-14 DATE

5-27-14
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER SCOTT A. SHAVER No. 42946 Exp. 3-31-16 CIVIL STATE OF CALIFORNIA

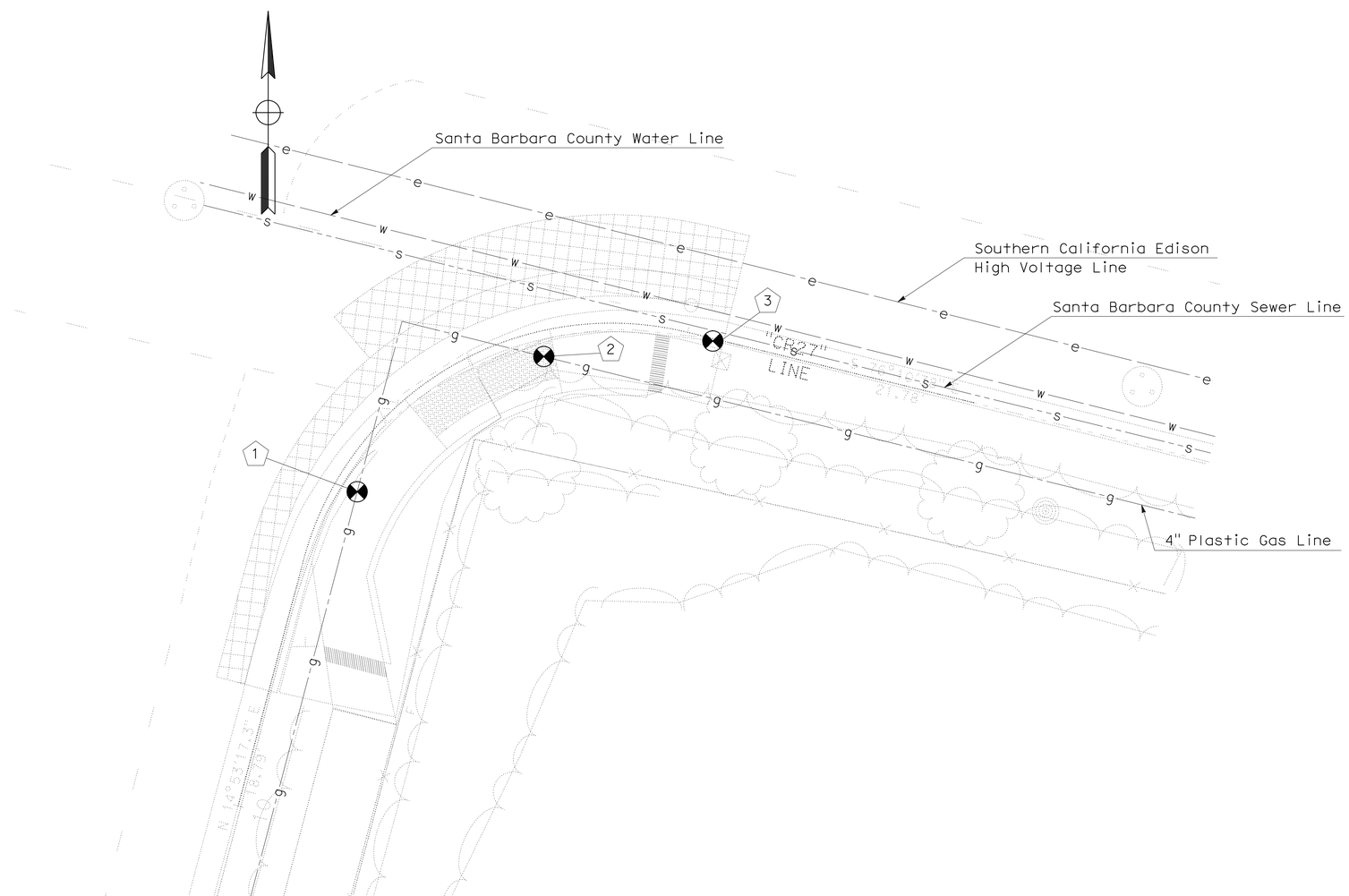
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

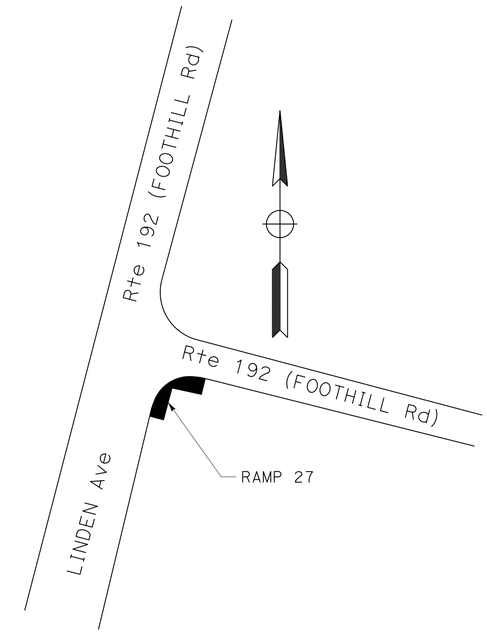
NOTE:

FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.

POTHOLING INFORMATION

(X)	UTILITY OWNER	DESCRIPTION	STATION	OFFSET	ELEVATION	DEPTH
1	SOUTHERN CALIFORNIA GAS	4" PLASTIC GAS	10+25.20	1.72' Rt	X'	45"
2	SOUTHERN CALIFORNIA GAS	4" PLASTIC GAS	10+44.12	1.88' Rt	X'	40"
3	SANTA BARBARA COUNTY	WATER LINE	10+57.23	0.18' Rt	X'	36"





LOCATION DETAIL

CURB RAMP No. 27, PM 17.4
CASE C Mod
Rte 192 (FOOTHILL Rd) AND LINDEN Ave
CARPINTERIA

APPROVED FOR UTILITY INFORMATION ONLY

UTILITY PLAN

SCALE 1"=5'

U-11

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
06-DESIGN

FUNCTIONAL SUPERVISOR: SCOTT SHAVER
CALCULATED-DESIGNED BY: GILBERTO BACA
CHECKED BY
REVISED BY
DATE REVISED

LAST REVISION 05-12-14
DATE PLOTTED => 25-AUG-2014
TIME PLOTTED => 17:52

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	SB	1,101, 192,246	Var	36	66

REGISTERED CIVIL ENGINEER 5-21-14 DATE

5-27-14
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER SCOTT A. SHAVER No. 42946 Exp. 3-31-16 CIVIL STATE OF CALIFORNIA

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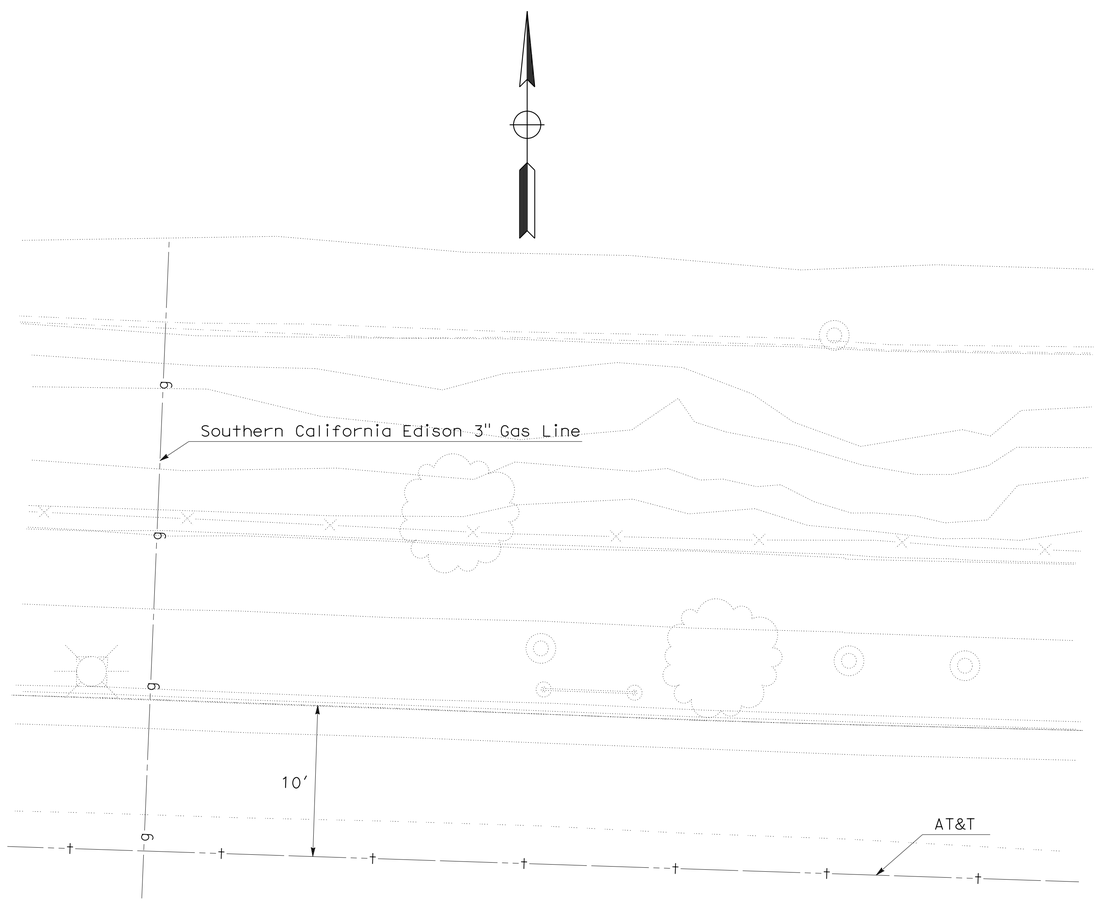

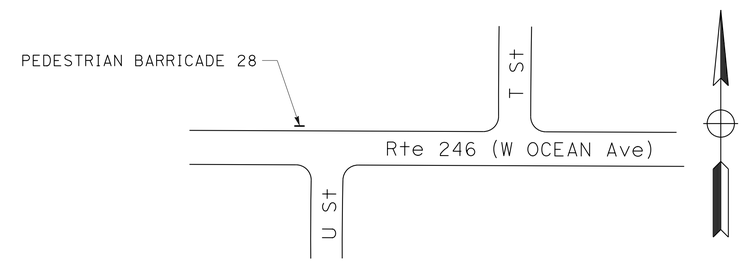

LOCATION DETAIL

PEDESTRIAN BARRICADE No. 28, PM 8.6
ROUTE 246 (W OCEAN Ave) AND U St
LOMPOC

APPROVED FOR UTILITY INFORMATION ONLY

UTILITY PLAN

SCALE 1"=5'

U-12

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
06-DESIGN

FUNCTIONAL SUPERVISOR: SCOTT SHAVER
CALCULATED-DESIGNED BY: GILBERTO BACA
CHECKED BY
REVISED BY
DATE REVISED

LAST REVISION 05-15-14
DATE PLOTTED => 25-AUG-2014
TIME PLOTTED => 17:52

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	SB	1,101, 192,246	Var	37	66

REGISTERED CIVIL ENGINEER 5-21-14 DATE

5-27-14
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER SCOTT A. SHAVER No. 42946 Exp. 3-31-16 CIVIL STATE OF CALIFORNIA

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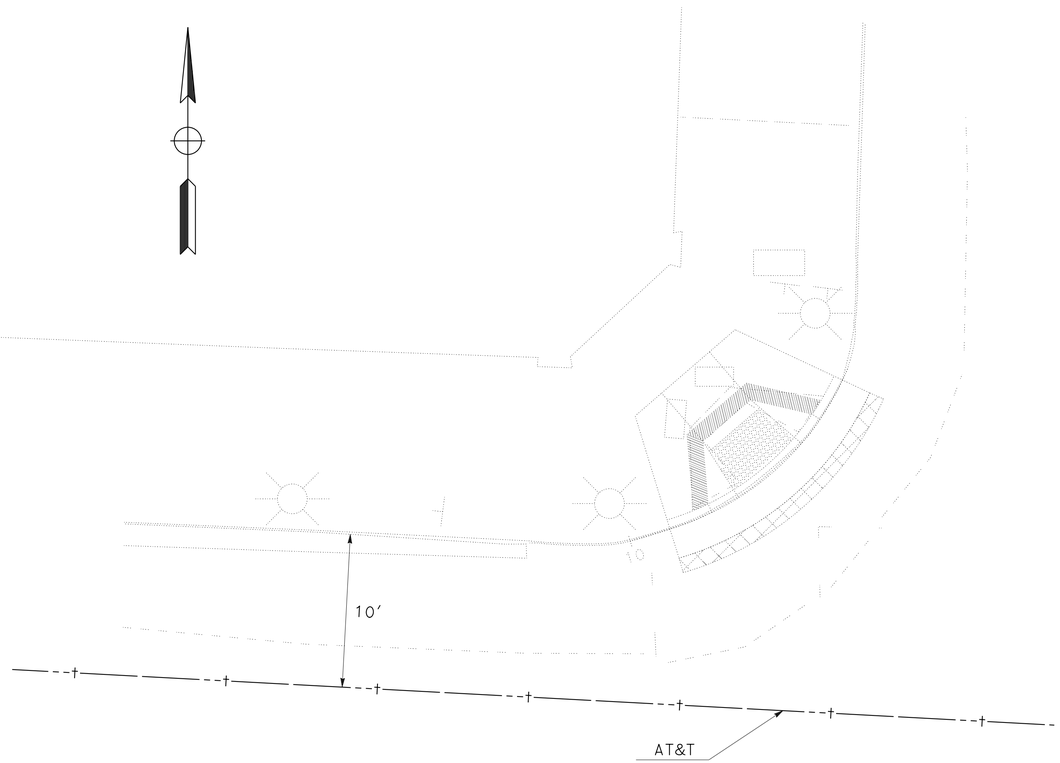
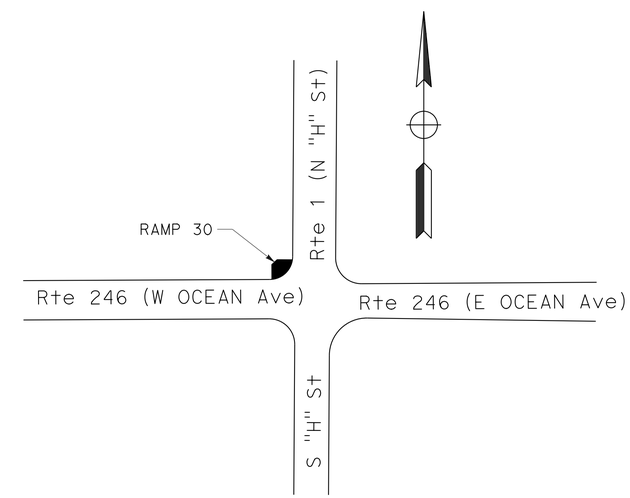
NOTE:

FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.





LOCATION DETAIL

CURB RAMP No. 30, PM 9.5
CASE A
ROUTE 246 (W OCEAN AVE)/ROUTE 1 (N "H" St)
LOMPOC

APPROVED FOR UTILITY INFORMATION ONLY

UTILITY PLAN

SCALE 1"=5'

U-13

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
06-DESIGN

FUNCTIONAL SUPERVISOR: SCOTT SHAVER
CALCULATED-DESIGNED BY
CHECKED BY
REVISED BY
DATE REVISED
WAFAA SIQUEIROS

LAST REVISION 05-12-14
DATE PLOTTED => 25-AUG-2014
TIME PLOTTED => 17:52

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	SB	1,101, 192,246	Var	38	66

REGISTERED CIVIL ENGINEER 5-21-14 DATE

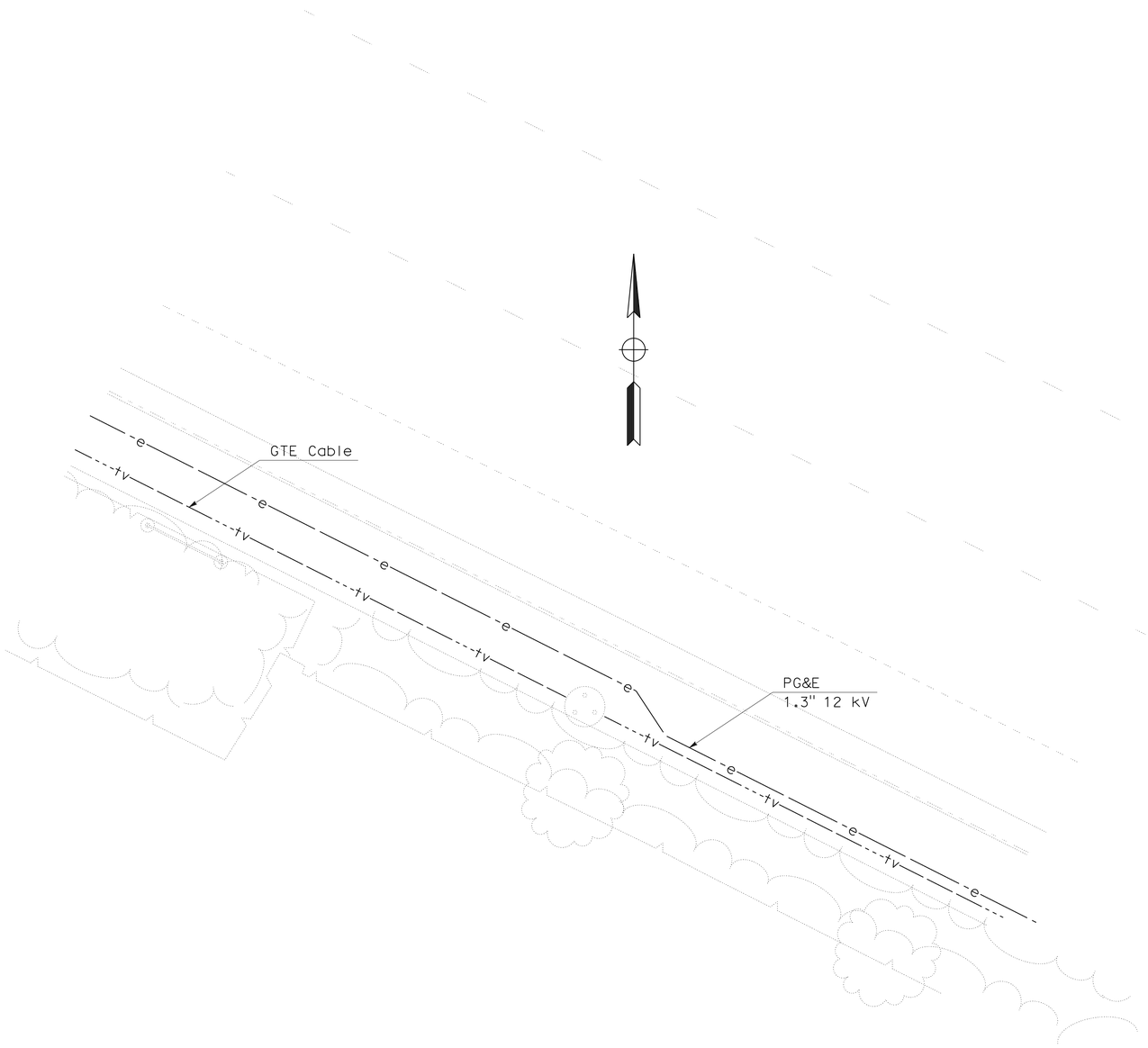
5-27-14
PLANS APPROVAL DATE

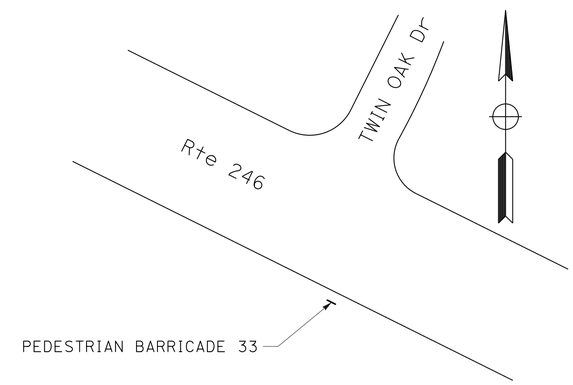
REGISTERED PROFESSIONAL ENGINEER
SCOTT A. SHAVER
No. 42946
Exp. 3-31-16
CIVIL
STATE OF CALIFORNIA

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

NOTE:

1. FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.





LOCATION DETAIL

PEDESTRIAN BARRICADE No. 33, PM R25.6
ROUTE 246 AND TWIN OAK Dr
BUELLTON

APPROVED FOR UTILITY INFORMATION ONLY

UTILITY PLAN
SCALE 1"=5'
U-14

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
06-DESIGN

FUNCTIONAL SUPERVISOR: SCOTT SHAVER
CALCULATED-DESIGNED BY
CHECKED BY
GILBERTO BACA
REVISED BY
DATE REVISED

LAST REVISION 05-15-14 | DATE PLOTTED => 25-AUG-2014 | TIME PLOTTED => 17:52

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	SB	1,101, 192,246	Var	39	66

REGISTERED CIVIL ENGINEER 5-21-14 DATE

5-27-14
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER SCOTT A. SHAVER No. 42946 Exp. 3-31-16 CIVIL STATE OF CALIFORNIA

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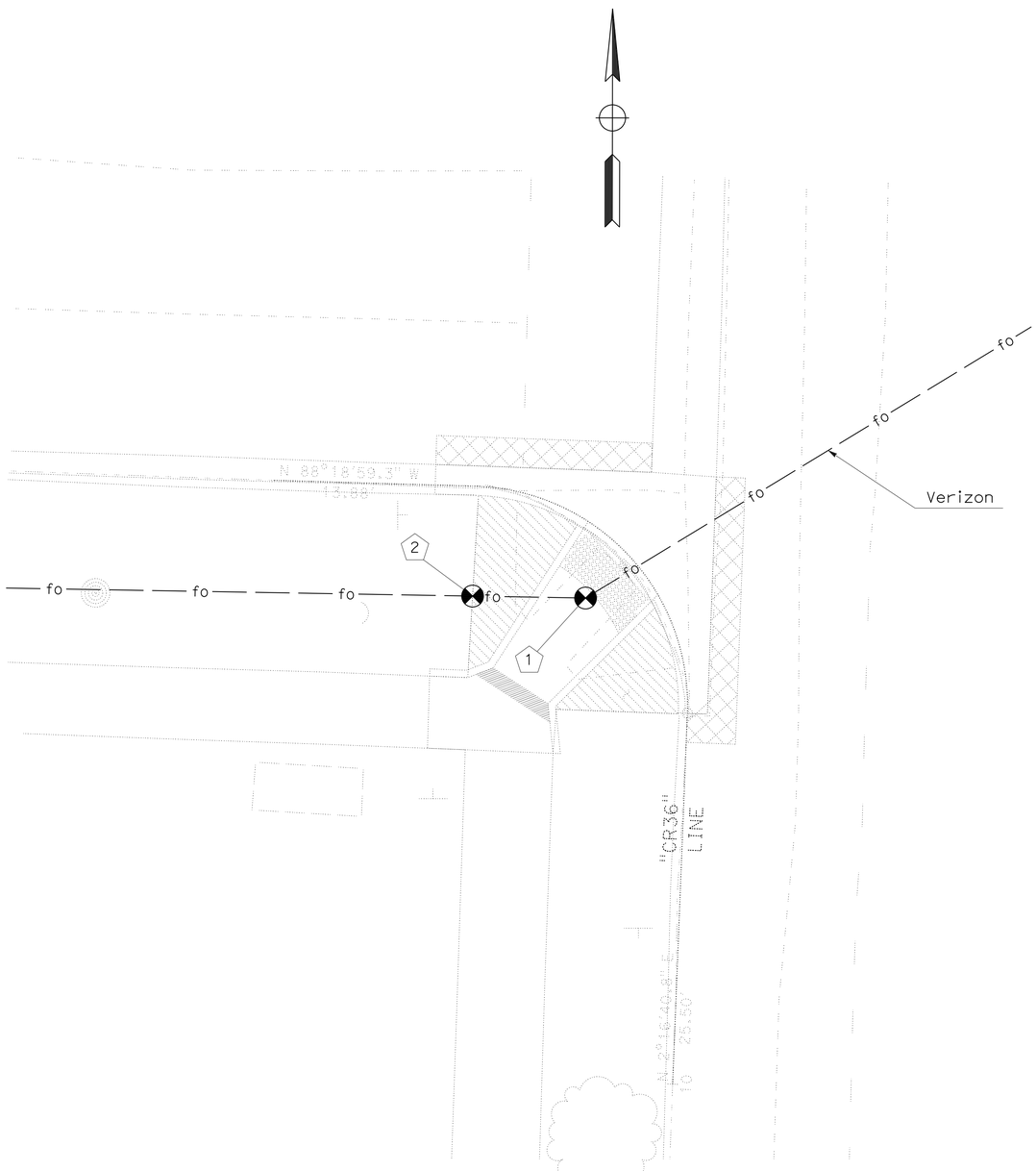
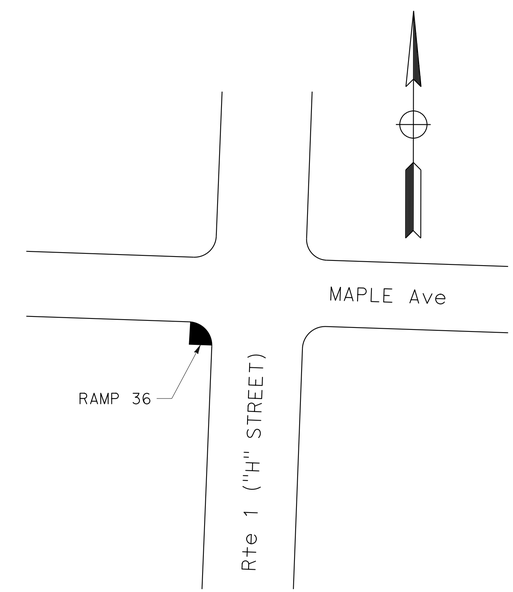
NOTE:

FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.

POTHOLING INFORMATION

(X)	UTILITY OWNER	DESCRIPTION	STATION	OFFSET	ELEVATION	DEPTH
1	VERIZON	1" FIBER OPTIC LINE	10+37.21	4.16' Lt	X'	15"
2	VERIZON	1" FIBER OPTIC LINE	10+49.20	7.55' Lt	X'	18"





LOCATION DETAIL

CURB RAMP No. 34, PM 21.0
CASE F
ROUTE 1 AND MAPLE Ave
LOMPOC

APPROVED FOR UTILITY INFORMATION ONLY

UTILITY PLAN

SCALE 1"=5'

U-15

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
06-DESIGN

FUNCTIONAL SUPERVISOR: SCOTT SHAVER
CALCULATED-DESIGNED BY
CHECKED BY
REVISED BY: GILBERTO BACA
DATE REVISED

LAST REVISION 05-12-14 | DATE PLOTTED => 25-AUG-2014 | TIME PLOTTED => 17:52

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	SB	1,101, 192,246	Var	40	66

REGISTERED CIVIL ENGINEER 5-27-14 DATE

5-27-14
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER FAWZI YAGHMOUR No. C-54750 Exp. 12/31/15 CIVIL STATE OF CALIFORNIA

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

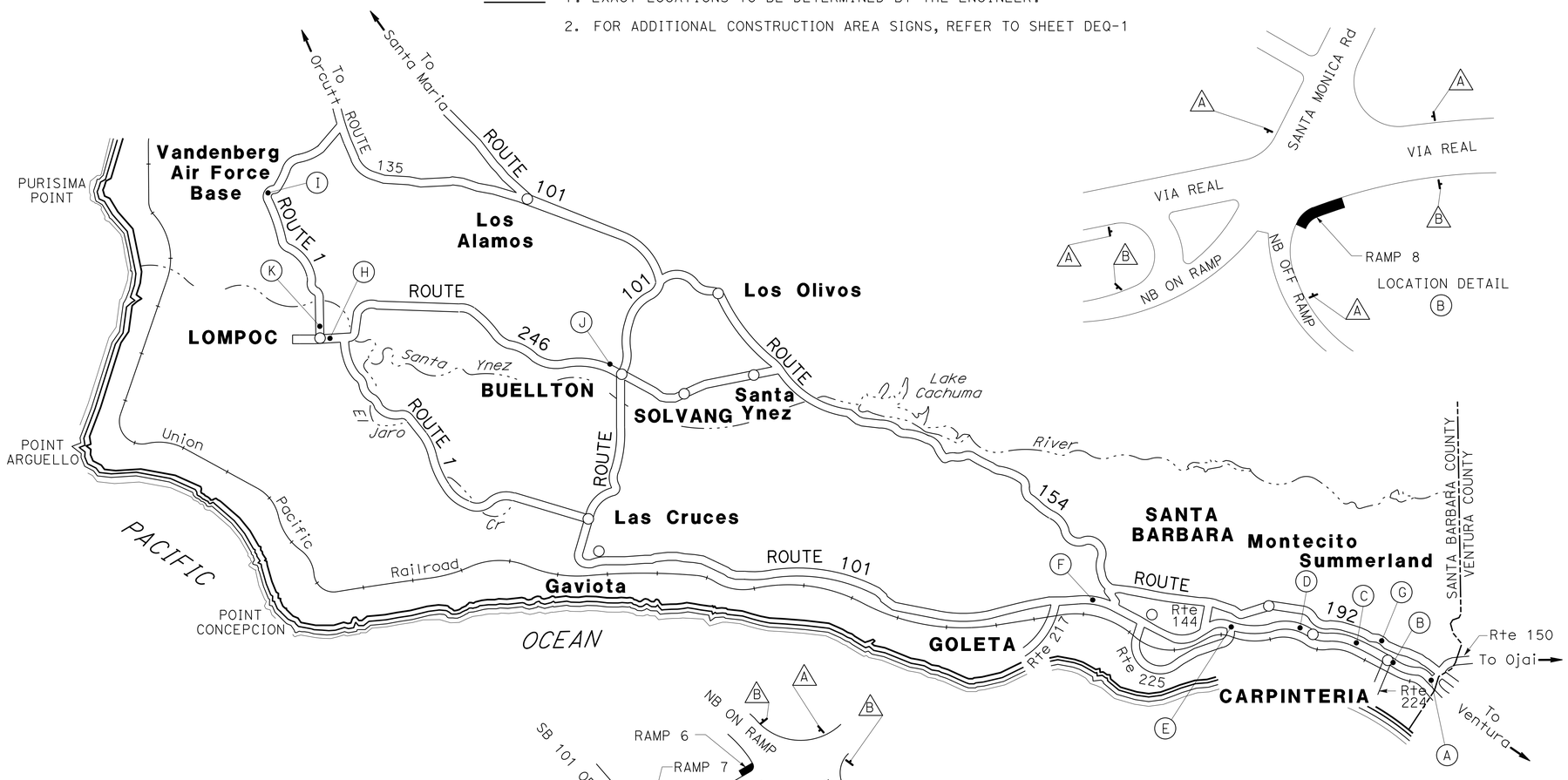
STATIONARY MOUNTED CONSTRUCTION AREA SIGNS

LEGEND

△ CONSTRUCTION AREA SIGN NO

SIGN No.	SIGN CODE FEDERAL	SIGN CODE CALIFORNIA	PANEL SIZE	SIGN MESSAGE	No. OF POSTS AND SIZE	No. OF SIGNS
A	W20-1		48" X 48"	ROAD WORK AHEAD	1-4" x 6"	49
B	G20-2		36" X 18"	END ROAD WORK	1-4" x 4"	47

NOTES:
1. EXACT LOCATIONS TO BE DETERMINED BY THE ENGINEER.
2. FOR ADDITIONAL CONSTRUCTION AREA SIGNS, REFER TO SHEET DEQ-1



APPROVED FOR CONSTRUCTION AREA SIGN WORK ONLY

CONSTRUCTION AREA SIGNS

NO SCALE

CS-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans®
TRAFFIC DESIGN

FUNCTIONAL SUPERVISOR: MOHAMMED QATAMI
CALCULATED-DESIGNED BY: FAWZI YAGHMOUR
CHECKED BY: GURMIT GILL
REVISED BY
DATE REVISED

LAST REVISION 03-27-14
DATE PLOTTED => 26-AUG-2014
TIME PLOTTED => 09:49

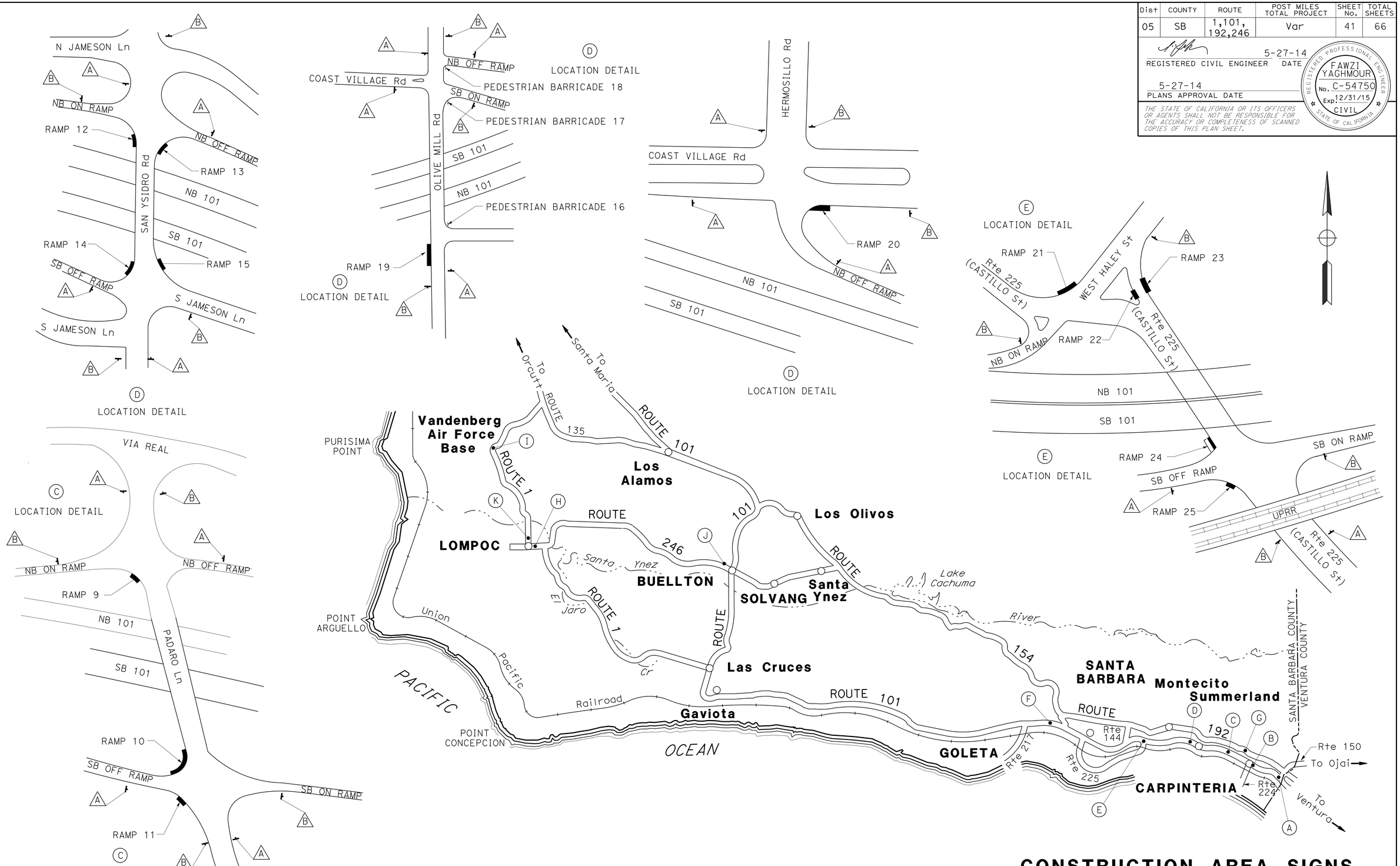
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	SB	1,101, 192,246	Var	41	66

REGISTERED CIVIL ENGINEER DATE 5-27-14

PLANS APPROVAL DATE 5-27-14

REGISTERED PROFESSIONAL ENGINEER FAWZI YAGHMOUR No. C-54750 Exp. 12/31/15 CIVIL STATE OF CALIFORNIA

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.



CONSTRUCTION AREA SIGNS

NO SCALE

CS-2

APPROVED FOR CONSTRUCTION AREA SIGN WORK ONLY

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans

TRAFFIC DESIGN

FUNCTIONAL SUPERVISOR: MOHAMMED QATAMI

CALCULATED-DESIGNED BY: FAWZI YAGHMOUR

CHECKED BY: GURMIT GILL

REVISED BY

DATE REVISED

LAST REVISION 03-27-14

DATE PLOTTED => 26-AUG-2014

TIME PLOTTED => 09:49

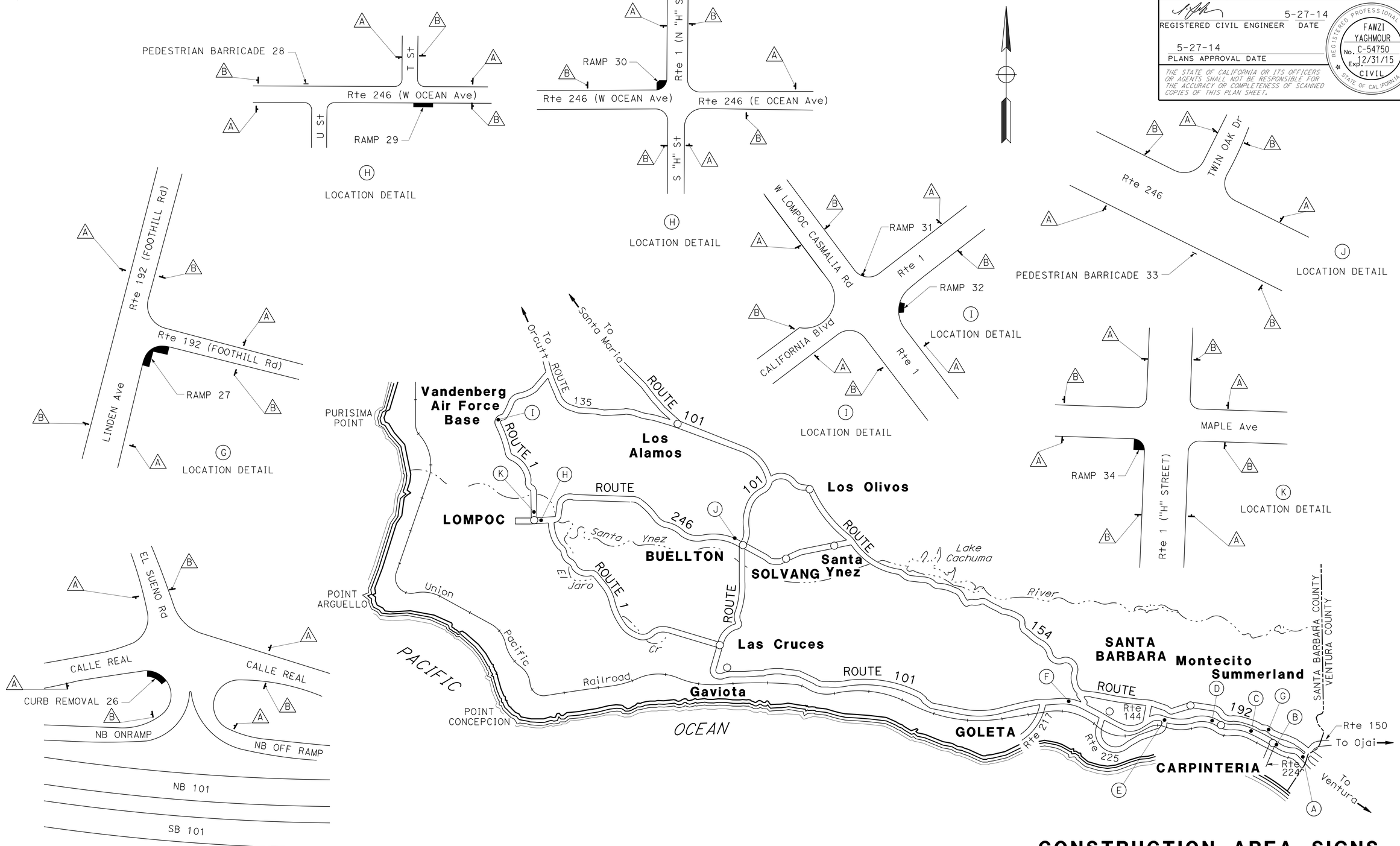
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	SB	1,101, 192,246	Var	42	66

REGISTERED CIVIL ENGINEER 5-27-14 DATE

5-27-14
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER FAWZI YAGHMOUR No. C-54750 Exp. 12/31/15 CIVIL STATE OF CALIFORNIA

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.



APPROVED FOR CONSTRUCTION AREA SIGN WORK ONLY

CONSTRUCTION AREA SIGNS

NO SCALE

CS-3

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® **TRAFFIC DESIGN**

FUNCTIONAL SUPERVISOR: MOHAMMED QATAMI
CALCULATED-DESIGNED BY: FAWZI YAGHMOUR
CHECKED BY: GURMIT GILL
REVISED BY
DATE REVISED

LAST REVISION 03-27-14
DATE PLOTTED => 26-AUG-2014
TIME PLOTTED => 09:49

BORDER LAST REVISED 7/2/2010
USERNAME => s115755
DGN FILE => 05000003981a003.dgn
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
UNIT 1512
PROJECT NUMBER & PHASE 05000003981

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	SB	1,101, 192,246	Var	43	66

REGISTERED CIVIL ENGINEER 5-27-14 DATE

5-27-14
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER FAWZI YAGHMOUR No. C-54750 Exp. 12/31/15 CIVIL STATE OF CALIFORNIA

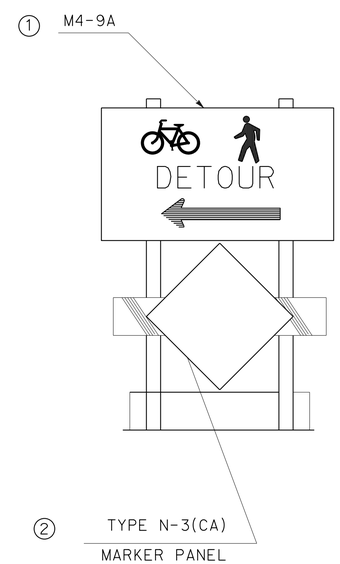
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

STATIONARY MOUNTED CONSTRUCTION AREA SIGNS

SIGN No.	SIGN CODE FEDERAL	SIGN CODE CALIFORNIA	PANEL SIZE	SIGN MESSAGE	NUMBER OF POSTS AND SIZE	No. OF SIGNS
1	M4-9A		48"X18"	DETOUR, BIKE AND PEDESTRIAN	BARRICADE MOUNTED	58
2		TYPE N-3 MARKER	18"X18"	YELLOW TYPE N-1 MARKER	BARRICADE MOUNTED	58
TOTAL						116

TYPE III BARRICADE

LOCATION	TYPE III BARRICADE
	EA
29 LOCATIONS	58
TOTAL	58



DETAIL A

MOTORIST INFORMATION PLAN AND QUANTITIES

(DETOUR LAYOUT FOR 29 LOCATIONS)

MIQ-1

APPROVED FOR MOTORIST INFORMATION WORK ONLY

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® TRAFFIC DESIGN

FUNCTIONAL SUPERVISOR: MOHAMMED QATAMI
CALCULATED-DESIGNED BY: FAWZI YAGMOUR
CHECKED BY: GURMIT GILL
REVISED BY
DATE REVISED

LAST REVISION 03-26-14
DATE PLOTTED => 26-AUG-2014
TIME PLOTTED => 09:49

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	SB	1,101, 192,246	Var	44	66

REGISTERED CIVIL ENGINEER 5-27-14 DATE

5-27-14
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER FAWZI YAGHMOUR No. C-54750 Exp. 12/31/15 CIVIL STATE OF CALIFORNIA

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

PAVEMENT DELINEATION QUANTITIES

LOCATION	COUNTY	ROUTE	POSTMILE	CITY	DESCRIPTION	THERMOPLASTIC PAVEMENT MARKING						THERMOPLASTIC TRAFFIC STRIPE (SPRAYABLE)		PAVEMENT MARKER (RETROREFLECTIVE)
						TYPE I ARROW	CROSSWALK	LIMIT-LINE	REMOVE LIMIT-LINE	REMOVE ARROW TYPE I	REMOVE CROSSWALK	DETAIL 27B	DETAIL 25	TYPE H
						SQFT						LF	LF	EA
8	SB	101	R3.9	CARPINTERIA	SANTA MONICA RD/NB OFF-RAMP		96	12	12		96	25		
9	SB	101	R7.1	SUMMERLAND	PADARO Ln/ NB ON RAMP (SW)	24				24			30	2
10,11	SB	101	R7.1	SUMMERLAND	101 SB OFF RAMP PADARO Ln			36	36			27	25	2
15	SB	101	10.0	SANTA BARBARA	SAN YSIDRO/ S JAMESON Ln			18	18			25	25	2
24, 25	SB	101	R14.3	SANTA BARBARA	HWY 225 (CASTILLO St) / SB OFF RAMP		60				60	25	25	2
27	SB	192	17.4	CARPINTERIA	Rte 192 / LINDEN Ave (SE CORNER)		25				25	30		
					SUB-TOTAL	24	181	66	66	24	181	132	105	8
					TOTAL	271			271			237		8

OBJECT MARKER

LOCATION	OBJECT MARKER (TYPE K-1)	REMOVE MARKER
	EA	EA
101 NB ON RAMP SW CORNER - 12	1	1
101 SB OFF RAMP NW CORNER - 14	1	1
101 SB ON RAMP NE CORNER - 15	1	1
TOTAL	3	3

PAVEMENT DELINEATION QUANTITIES

PDQ-1

REVISED BY | DATE REVISED

FAWZI YAGHMOUR | GURMIT GILL

CALCULATED-DESIGNED BY | CHECKED BY

FUNCTIONAL SUPERVISOR: MOHAMMED QATAMI

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans® TRAFFIC DESIGN

LAST REVISION 03-27-14 | DATE PLOTTED => 26-AUG-2014 | TIME PLOTTED => 09:49

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	SB	1,101, 192,246	Var	45	66

REGISTERED CIVIL ENGINEER 5-27-14 DATE

5-27-14
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER FAWZI YAGHMOUR No. C-54750 Exp. 12/31/15 CIVIL STATE OF CALIFORNIA

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

ROADSIDE SIGN QUANTITIES

RAMP No.	LOCATION	ROUTE	POSTMILE	CITY	SIGN CODE	POST TYPE & SIZE	PANEL SIZE	BACKGROUND SHEETING COLOR	BACKGROUND RETROREFLECTIVITY ASTM TYPE	LEGEND COLOR	LEGEND RETROREFLECTIVITY ASTM TYPE	GRAFFITI FLOW PREMIUM	FURNISHED SINGLE SHEET ALUMINUM SIGN (0.063") UN-FRAMED (SQFT)	RELOCATE ROADSIDE SIGN (EA)	RESET ROADSIDE SIGN (EA)	RESET OBJECT MARKER (EA)	ROADSIDE SIGN (ONE POST) (EA)	REMOVE ROADSIDE SIGN (EA)	REMARKS	DESCRIPTION
8	NB OFF RAMP	101	R3.9	CARPINTERIA	R1-1									1					STOP	SANTA MONICA / NB OFF RAMP
	NB OFF RAMP	101	R3.9	CARPINTERIA	G78-1(CA)									1					101, SOUTH	SANTA MONICA / NB OFF RAMP
9	NB ON RAMP	101	R7.1	SUMMERLAND	G26-1(CA)		35" x 30"	WHITE	III	BLACK		X	7.29				1	1	US 101	PADARO Ln / NB ON RAMP
10	SUMMERLAND	101	R7.1	SUMMERLAND	R6-1										1	1			ONE WAY	PADARO Ln / NB OFF RAMP
	SUMMERLAND	101	R7.1	SUMMERLAND	R5-1a	1-4" x 6"	30" x30"	RED	VII	WHITE	VII	X	6.25				1	1	DO NOT ENTER	PADARO Ln / SB OFF RAMP
					R6-1		36" x24"	RED	VII	WHITE	VII	X	6						WRONG WAY	
11	SB OFF RAMP	101	R7.1	SUMMERLAND	R6-1										1				ONE WAY	PADARO Ln / SB OFF RAMP
14	SB RAMP NW	101	10.0	SANTA BARBARA	G78-1(CA)									1					101, SOUTH	SAN YSIDRO / JAMES CORNER
15	SB RAMP NE	101	10.0	SANTA BARBARA	G78-1(CA)									1					101, SOUTH	SAN YSIDRO / JAMES CORNER
19	SW CORNER	101	10.5	SANTA BARBARA	R2-1										1				SPEED LIMIT 30	OLIVE MILL Rd / VIRGINIA Rd
20	NB OFF RAMP	101	11.00	SANTA BARBARA	R26 (CA)										1				NO PARK ANY TIME	COAST VILLAGE Rd, HERMOSILLO Rd
22	NB RAMP SW	101	R14.3	SANTA BARBARA	G78-1(CA)									1					101, NORTH	Rte 225 (CASTILLO St) & W HALEY St
26	SANTA BARBARA	101	18.8	SANTA BARBARA	R1-1									1		1			STOP	CALLE-REAL@ EL SUENO Rd/NB OFF RAMP
TOTAL													19.54	6	4	2	2	2		

NOTE: THERE IS NO LAYOUT SHEETS TO SHOW THE SIGNS ON THE PLANS

SIGN QUANTITIES

SQ-1

REVISED BY | DATE REVISED

FAWZI YAGHMOUR | GURMIT GILL

CALCULATED-DESIGNED BY | CHECKED BY

FUNCTIONAL SUPERVISOR: MOHAMMED QATAMI

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans® TRAFFIC DESIGN

LAST REVISION 03-27-14 | DATE PLOTTED => 26-AUG-2014 | TIME PLOTTED => 09:49

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	SB	1,101, 192,246	Var	46	66

REGISTERED CIVIL ENGINEER 5-21-14 DATE

5-27-14
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER SCOTT A. SHAVER No. 42946 Exp. 3-31-16 CIVIL STATE OF CALIFORNIA

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

ROADWAY QUANTITIES

CURB RAMP/BARRICADE No.	CORNER	ROUTE	PM*	LOCATION INTERSECTION	MINOR CONCRETE (Misc CONSTRUCTION) VALLEY GUTTER	CURB (TYPE A2-6)	CURB (TYPE A2-6) Mod	CURB (TYPE A2-8) Mod	CURB RAMP/SIDEWALK	RETAINING CURB	DETECTABLE WARNING SURFACE	ADJUST PB	ADJUST UTILITY COVER TO GRADE	REPLACE AC SURFACING	ROADWAY EXCAVATION	REMOVE Conc (CURB, GUTTER & SIDEWALK) REMOVE CONCRETE CURB	REMOVE Conc SIDEWALK	REMOVE AC DIKE	COLD PLANE AC PAVEMENT	HMA (TYPE A)	Temp DRAINAGE INLET PROTECTION	PEDESTRIAN BARRICADE **	RESET PAVERS	PRE/POST CONSTRUCTION SURVEYS
					CY		CY	CY	CY	CY	SQFT	EA	EA	CY	CY	CY	CY	LF	SQYD	TONS	EA	EA	SQFT	EA
6	NW	101	R0.8	Rte 150 (RINCON Rd)/NB ONRAMP				1.3	1.3	0.4	23.0			2.6		1.9	1.5							
7	NE	101	R0.8	Rte 150 (RINCON Rd)/SB OFFRAMP				2.9	1.2	0.4	18.0			0.9		2.9	2.5	3.0						
8	SE	101	3.9	SANTA MONICA Rd/NB OFFRAMP			1.1		1.6	0.2	17.0			0.5		0.3	0.8	8.0	12.2	1.7				
9	SW	101	R7.1	PADARO Ln/NB ONRAMP				1.7	1.4	0.5	18.0			0.6		1.7	1.6							
10	NW	101	R7.1	PADARO Ln/SB OFFRAMP				1.5	1.4	0.4	18.0			0.5	0.4	1.5	1.9				1			
11	SW	101	R7.1	PADARO Ln/SB OFFRAMP			1.2		1.0	0.5	18.0			0.4		1.2	1.3							1
12	SW	101	10.0	SAN YSIDRO Rd/NB ONRAMP				1.7	1.4	0.1	18.0			1.0	1.4	1.7								
13	SE	101	10.0	SAN YSIDRO Rd/NB OFFRAMP				1.6	1.1	0.1	18.0			0.5	0.8	1.6	0.3							
14	NW	101	10.0	SAN YSIDRO Rd/SB OFFRAMP			1.3		1.0	0.3	18.0			0.5	1.1	1.3								
15	NE	101	10.0	SAN YSIDRO Rd/S JAMESON Ln				1.1	1.4	0.1	17.0			0.7	1.1	1.1	0.3							
16	NE	101	10.5	OLIVE MILL Rd/VIRGINIA Rd																		1		
17	SE	101	10.5	OLIVE MILL Rd/SB ONRAMP																		1		
18	SE	101	10.5	OLIVE MILL Rd/NB OFFRAMP																		1		
19	SW	101	10.5	OLIVE MILL Rd/VIRGINIA Rd				2.2	2.2		15.0			1.3	2.2	2.2			19.6	2.6				
20	SE	101	11.0	COAST VILLAGE Rd & HERMOSILLO Rd/NB OFFRAMP		2.3			2.6	0.5	19.0			1.5		2.3	2.9							1
21	NW	101	R14.3	Rte 225 (CASTILLO St) & W HALEY St/NB ONRAMP				2.9	2.3	0.5	18.0			0.9		2.9	2.6				1			
22	SW	101	R14.3	Rte 225 (CASTILLO St) & W HALEY St				3.9	2.4	0.7	19.0			2.3		3.9	1.3							
23	SE	101	R14.3	Rte 225 (CASTILLO St) & W HALEY St				2.4	1.9	0.6	18.0			1.4		2.4	2.2							1
24	NW	101	R14.3	Rte 225 (CASTILLO St)/SB OFFRAMP			1.8		1.3	0.3	13.0			0.6			1.5				1			
25	SW	101	R14.3	Rte 225 (CASTILLO St)/SB OFFRAMP			1.2		0.9	0.4	17.0			0.4			1.1							
26	SW	101	18.8	CALLE REAL & EL SUENO Rd/NB ONRAMP										9.3	0.6	1.7								
27	SE	192	17.4	Rte 192 & LINDEN Ave			3.0		2.4	0.7	33.0	1	1	2.0	3.6	2.9			13.7	0.2				1
28	N	246	8.6	Rte 246 (W OCEAN Ave) & SOUTH U St																		1		
29	S	246	8.7	Rte 246 (W OCEAN Ave) & NORTH T St				2.1	2.2	0.5	15.0			0.6		2.1	2.4							
30	NW	246	9.5	Rte 246 (W OCEAN Ave) & Rte 1 (NORTH H St)			0.9		0.5		16.0			0.3		0.9	0.6						52.0	
31	NW	1	29.9	Rte 1 & W LOMPOC CASMALIA Rd			1.7		0.7	0.6	24.0			0.6		1.5								
32	NE	1	29.9	Rte 1 & CALIFORNIA Blvd		1.8			4.6		15.0			0.6		1.8	6.1							
33	S	246	R25.6	Rte 246 & TWIN OAK Dr																		1		
34	SW	1	21.0	Rte 1 (H St) & MAPLE Ave	1.0		1.6		1.2	0.7	20.0			1.3		2.6	2.5							1
				SUBTOTAL	1.0	4.1	13.8	25.3	38.0	8.5	425.0	1	1	31.3	11.2	42.4	33.4	11.0	45.5	4.5	3	5	52.0	5
				TOTAL	90.7						425.0	1	1	31.3	11.2	75.8		11.0	45.5	4.5	3	5	52.0	5

* POST MILES APPROXIMATE

** LOCATION TO BE DETERMINED BY THE ENGINEER

SUMMARY OF QUANTITIES

Q-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans

06-DESIGN

FUNCTIONAL SUPERVISOR: SCOTT SHAVER

CALCULATED-DESIGNED BY: WAFAA SIQUEIROS

CHECKED BY

REVISED BY

DATE REVISED

LAST REVISION 12-02-13 | DATE PLOTTED => 25-AUG-2014 | TIME PLOTTED => 17:52

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	SB	1, 101, 192, 246	Var	47	66

REGISTERED ELECTRICAL ENGINEER 06-11-14 DATE

5-27-14
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER HASHIM KHALID No. 18054 Exp. 6/30/15 ELECTRICAL STATE OF CALIFORNIA

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

LEGEND:(FOR THIS SHEET AND SHEET E-2 ONLY)

1 Exist 120/240 V, 1Ø, 3-WIRE, TYPE III-AF SERVICE EQUIPMENT ENCLOSURE WITH THE FOLLOWING CIRCUIT BREAKERS:

AMPERES	VOLTS	POLES	NAMEPLATE	METER	PHOTOELECTRIC CONTROL TYPE
100	240	2	MAIN	YES	———
50	120	1	SIGNAL	YES	———
30	120	1	LUMINAIRES	YES	II
10	120	1	TEST SWITCH	YES	———

2 Exist MODEL 170 CONTROLLER ASSEMBLY WITH BBS AND WIRELESS MODEM.

ABBREVIATIONS:

PSF PEDESTRIAN SIGNAL FACE

SYMBOLS

Exist CONDUIT

Exist SIGNAL POLE

CONDUCTOR & CONDUIT SCHEDULE

CABLE SCHEDULE			CONDUIT RUN NUMBER AND SIZE													
CABLE TYPE	POLE	PHASE	*1	*2	*3	*4	5	6	*7	*8	*9	*10	*11	*12	*13	*14
			2"	3"	4"	4"	4"	3"	3"	2"	3"	2"	2"	2"	2"	3"
Veh-Ped 9CSC	a	7,7P / 2			1/1	1/1	1/1	1/1							1/1	1/1
	b	1,2P / 7			1/1	1/1	1/1	1/1								1/1
	c	1,6,6P / 7			1/1	1/1	1/1	1/1								
	d	8,7P / 6			1/1	1/1										
	e	8,8P / 6			1/1	1/1	1/1		1/1							
	f	5,6P / 8			1/1	1/1	1/1		1/1	1/1						
	g	2,5,2P / 8			1/1	1/1	1/1		1/1	1/1	1/1					
PBA 3CSC	h	7,8P / 2			1/1	1/1	1/1		1/1	1/1	1/1	1/1				
		TOTAL			8/8	8/8	7/7	3/3	4/4	3/3	2/2	1/1			1/1	2/2

AWG	CIRCUIT	*1	*2	*3	*4	5	6	*7	*8	*9	*10	*11	*12	*13	*14
#6	Sig	2	2	2											
#10	LIGHTING	2	2		2	2	2	2	2	2				2	2
#14	PHOTOELECTRIC UNIT	2	2		2	2	2								
APS CABLE						2	2		2		2			2	
** Exist SIC CABLE				1											
DLC	PHASE														
	Ø1			1	1	1		1	1						
	Ø2			2	2	2	2								2
	Ø2 ADVANCE			1	1	1	1								1
	Ø5			1	1	1	1								1
	Ø6			2	2	2		2	2						
	Ø6 ADVANCE			1	1	1		1	1						
	Ø7			3	3										
	*** Ø7 ADVANCE			1											
	Ø8			3	3	3	3					2	3	3	3
	TOTAL			15	14	11	7	4	4			2	3	3	7

* Exist CONDUIT RUN. RC Exist CONDUCTORS, INSTALL CONDUCTORS AS SHOWN.

** RR Exist SIC CABLE.

*** RR Exist DLC

POLE AND EQUIPMENT SCHEDULE

No.	STANDARD TYPE	STANDARD SMA	STANDARD LMA	VEH SIG MTG MAST ARM	VEH SIG MTG POLE	PED SIG MTG	PPB Ø	PPB ARROW	HPS LUM	SPECIAL REQUIREMENTS
a	26-4-100	35′	12′	MAS MAS MAS	SV-1-T	SP-1-T	7	←	200 W	RS Exist PSF AND PBA. INSTALL COUNTDOWN PSF AND APS ASSEMBLY.
b	1-A				TV-1-T	SP-1-T	2	→		RS Exist PSF AND PBA. INSTALL COUNTDOWN PSF AND APS ASSEMBLY.
c	26-4-100	45′	12′	MAS MAS MAS	SV-1-T	SP-1-T	6	←	200 W	RS Exist PSF AND PBA. INSTALL COUNTDOWN PSF AND APS ASSEMBLY.
a	1-A				TV-1-T	SP-1-T	7	→		RS Exist PSF AND PBA. INSTALL COUNTDOWN PSF AND APS ASSEMBLY.
e	26-4-100	35′	12′	MAS MAS MAS	SV-1-T	SP-1-T	8	→	200 W	RS Exist PSF AND PBA. INSTALL COUNTDOWN PSF AND APS ASSEMBLY.
f	1-A				TV-1-T	SP-1-T	6	←		RS Exist PSF AND PBA. INSTALL COUNTDOWN PSF AND APS ASSEMBLY.
g	26-4-100	45′	12′	MAS MAS MAS	SV-1-T	SP-1-T	2	←	200 W	RS Exist PSF AND PBA. INSTALL COUNTDOWN PSF AND APS ASSEMBLY.
h	1-A				TV-1-T	SP-1-T	8	→		RS Exist PSF AND PBA. INSTALL COUNTDOWN PSF AND APS ASSEMBLY.

APPROVED FOR ELECTRICAL WORK ONLY

MODIFY SIGNAL AND LIGHTING

E-1

REVISED BY | DATE REVISED

YOHANNES CHALLA | HASHIM M KHALID

CALCULATED-DESIGNED BY | CHECKED BY

FUNCTIONAL SUPERVISOR | ALI BAKHDOUD

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans 06-ELECTRICAL DESIGN

LAST REVISION 06-11-14 | DATE PLOTTED => 26-AUG-2014 | TIME PLOTTED => 09:49

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	SB	1, 101, 192, 246	Var	48	66

REGISTERED ELECTRICAL ENGINEER 06-11-14 DATE

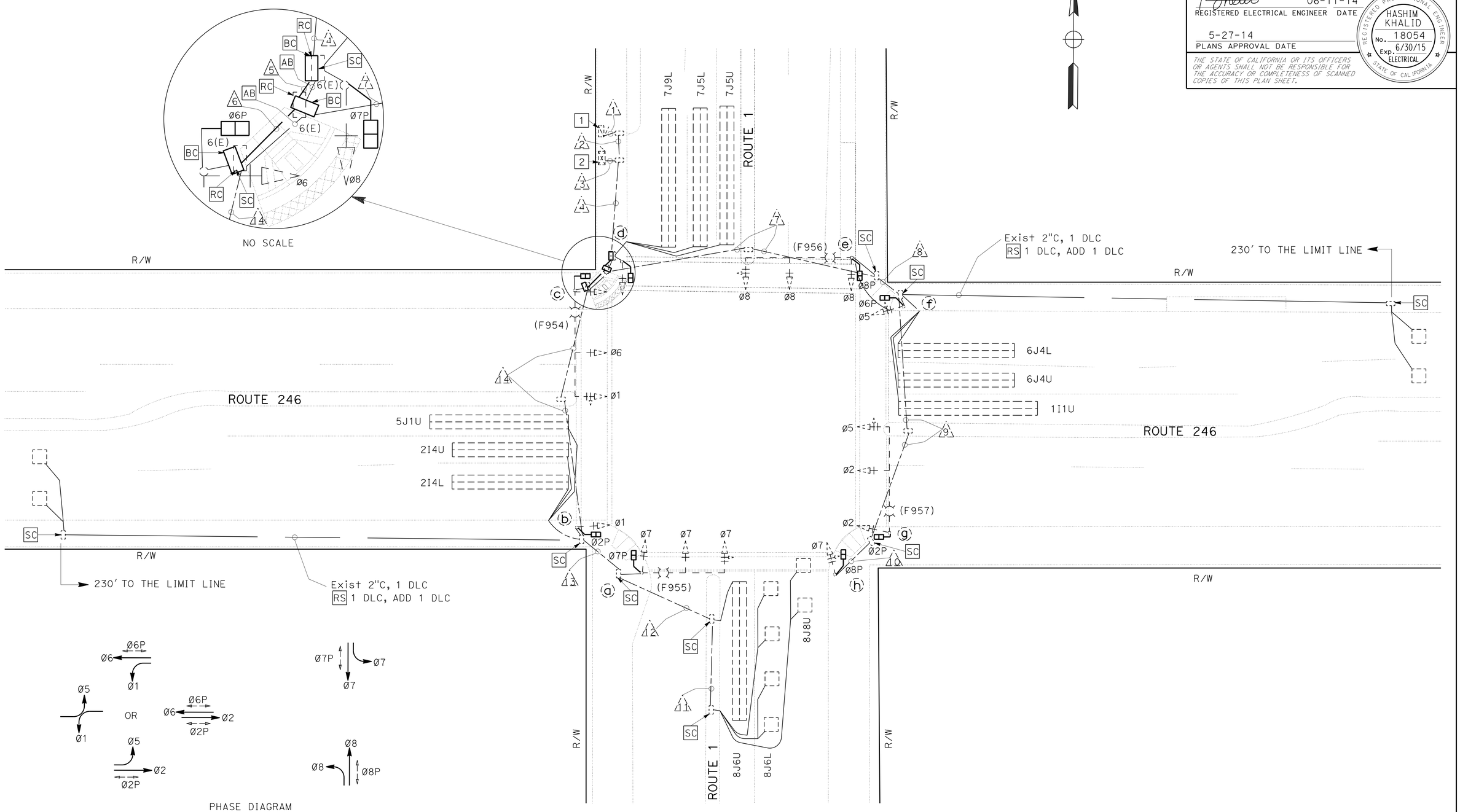
5-27-14
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER HASHIM KHALID No. 18054 Exp. 6/30/15 ELECTRICAL STATE OF CALIFORNIA

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

NOTES:

1. FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.



APPROVED FOR ELECTRICAL WORK ONLY

MODIFY SIGNAL AND LIGHTING

SCALE: 1"=20'

E-2

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans 06-ELECTRICAL DESIGN

FUNCTIONAL SUPERVISOR: ALI BAKHDOUD
CALCULATED-DESIGNED BY: YOHANNES CHALLA
CHECKED BY: HASHIM M KHALID
REVISED BY / DATE REVISED

LAST REVISION 06-11-14 | DATE PLOTTED => 26-AUG-2014 | TIME PLOTTED => 09:49

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	SB	1, 101, 192, 246	Var	49	66

REGISTERED ELECTRICAL ENGINEER 06-11-14 DATE

5-27-14
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER HASHIM KHALID No. 18054 Exp. 6/30/15 ELECTRICAL STATE OF CALIFORNIA

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

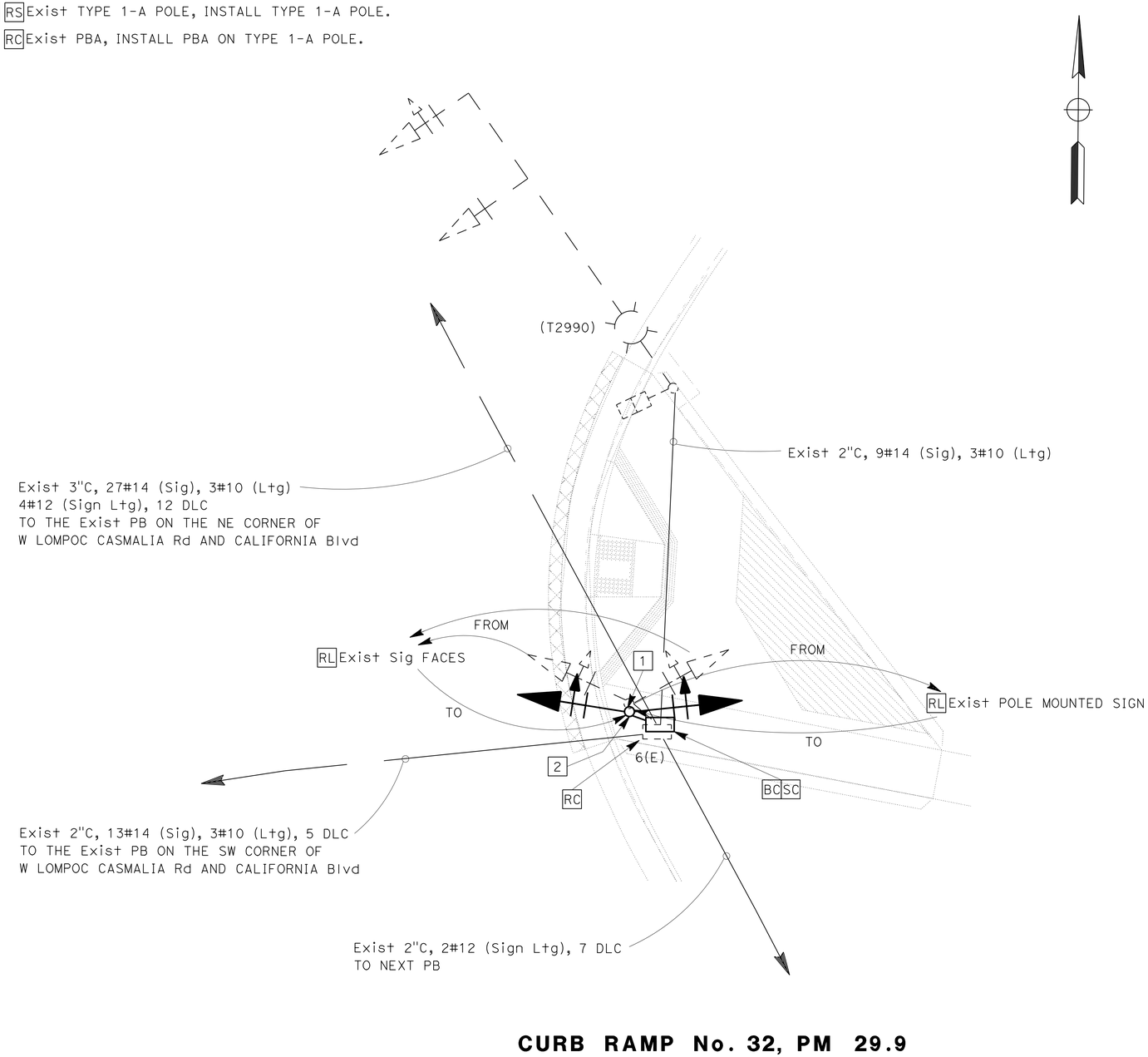
NOTES:

1. FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.
2. Existing ELECTRICAL CONDUITS, CONDUCTORS, AND CABLES SHALL BE PROTECTED IN PLACE.

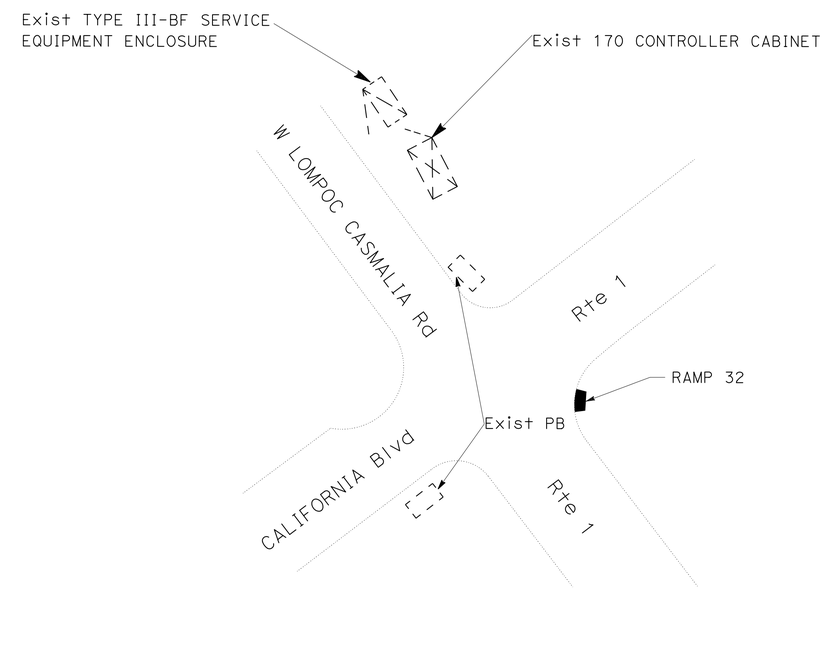
LEGEND:(FOR THIS SHEET ONLY)

1 RS Exist TYPE 1-A POLE, INSTALL TYPE 1-A POLE.

2 RC Exist PBA, INSTALL PBA ON TYPE 1-A POLE.



CURB RAMP No. 32, PM 29.9



LOCATION DETAILS

APPROVED FOR ELECTRICAL WORK ONLY

NO SCALE

MODIFY SIGNAL AND LIGHTING

E-3

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans 06-ELECTRICAL DESIGN

FUNCTIONAL SUPERVISOR: ALI BAKHDOUD
CALCULATED-DESIGNED BY: YOHANNES CHALLA
CHECKED BY: HASHIM M KHALID
REVISED BY
DATE REVISED

LAST REVISION 06-11-14 | DATE PLOTTED => 26-AUG-2014 | TIME PLOTTED => 09:49

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	SB	1, 101, 192, 246	Var	50	66

REGISTERED ELECTRICAL ENGINEER 06-11-14 DATE

5-27-14
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER HASHIM KHALID No. 18054 Exp. 6/30/15 ELECTRICAL STATE OF CALIFORNIA

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

NOTE:

ITEMS SHOWN IN TABLE ARE NOT A SEPARATE PAY ITEMS, FOR INFORMATION ONLY.

MODIFY SIGNAL AND LIGHTING

SHEET No.	3"C TYPE 3	4"C TYPE 3	No. 6 CONDUCTOR	No. 8 CONDUCTOR	No. 10 CONDUCTOR	No. 14 CONDUCTOR	DLC	9CSC	3CSC	APS CABLE	COUNTDOWN PSF	APS ASSEMBLY	No. 6(E) PB	TYPE 1-A SIGNAL STANDARD	TYPE 1-A FOUNDATION	PBA
	LF										EA					
E-2	20	10	60	500	900	200	3300	1400	1400	150	8	8	3			
E-3													1	1	1	1

ELECTRICAL QUANTITIES

E-4

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans 06-ELECTRICAL DESIGN

FUNCTIONAL SUPERVISOR: ALI BAKHDOUD
CALCULATED-DESIGNED BY: YOHANNES CHALLA
CHECKED BY: HASHIM M KHALID
REVISED BY
DATE REVISED

LAST REVISION 06-11-14 | DATE PLOTTED => 26-AUG-2014 | TIME PLOTTED => 09:49

M

Maint	MAINTENANCE
Max	MAXIMUM
MB	METAL BEAM
MBB	METAL BEAM BARRIER
MBGR	METAL BEAM GUARD RAILING
Med	MEDIAN
MGS	MIDWEST GUARDRAIL SYSTEM
MH	MANHOLE
Min	MINIMUM
Misc	MISCELLANEOUS
Misc I & S	MISCELLANEOUS IRON AND STEEL
Mkr	MARKER
Mod	MODIFIED,
	MODIFY
Mon	MONUMENT
MP	METAL PLATE
MPGR	METAL PLATE GUARD RAILING
MR	MOVEMENT RATING
MSE	MECHANICALLY STABILIZED EMBANKMENT
Mt	MOUNTAIN, MOUNT
Mtl	MATERIAL
MVP	MAINTENANCE VEHICLE PULLOUT

N

N	NORTH
NB	NORTHBOUND
No.	NUMBER (MUST HAVE PERIOD)
Nos.	NUMBERS (MUST HAVE PERIOD)
NPS	NOMINAL PIPE SIZE
NS	NEAR SIDE
NSP	NEW STANDARD PLAN
NTS	NOT TO SCALE

O

Oblr	OBLITERATE
OC	OVERCROSSING
OD	OUTSIDE DIAMETER
OF	OUTSIDE FACE
OG	ORIGINAL GROUND
OGAC	OPEN GRADED ASPHALT CONCRETE
OGFC	OPEN GRADED FRICTION COURSE
OH	OVERHEAD
OHWM	ORDINARY HIGH WATER MARK
O-O	OUT TO OUT
Opp	OPPOSITE
OSD	OVERSIDE DRAIN

P

P	PAGE
PAP	PERFORATED ALUMINUM PIPE
PB	PULL BOX
PC	POINT OF CURVATURE,
	PRECAST
PCC	POINT OF COMPOUND CURVE,
	PORTLAND CEMENT CONCRETE
PCMS	PORTABLE CHANGEABLE MESSAGE SIGN
PCP	PERFORATED CONCRETE PIPE,
	PRESTRESSED CONCRETE PIPE
PCVC	POINT OF COMPOUND VERTICAL CURVE
PEC	PERMIT TO ENTER AND CONSTRUCT
Ped	PEDESTRIAN
Ped OC	PEDESTRIAN OVERCROSSING
Ped UC	PEDESTRIAN UNDERCROSSING
Perm Mtl	PERMEABLE MATERIAL

P continued

PG	PROFILE GRADE
PI	POINT OF INTERSECTION
PJP	PARTIAL JOINT PENETRATION
Pkwy	PARKWAY
ℙ,PL	PLATE
P/L	PROPERTY LINE
PM	POST MILE,
	TIME FROM NOON TO MIDNIGHT
PN	PAVING NOTCH
POC	POINT OF HORIZONTAL CURVE
POT	POINT OF TANGENT
POVC	POINT OF VERTICAL CURVE
PP	PIPE PILE,
	PLASTIC PIPE,
	POWER POLE
PPL	PREFORMED PERMEABLE LINER
PPP	PERFORATED PLASTIC PIPE
PRC	POINT OF REVERSE CURVE
PRF	PAVEMENT REINFORCING FABRIC
PRVC	POINT OF REVERSE VERTICAL CURVE
PS&E	PLANS, SPECIFICATIONS AND ESTIMATES
PS, P/S	PRESTRESSED
PSP	PERFORATED STEEL PIPE
PT	POINT OF TANGENCY
PVC	POLYVINYL CHLORIDE
Pvmt	PAVEMENT

Q

Qty	QUANTITY

R

R	RADIUS
R & D	REMOVE AND DISPOSE
R & S	REMOVE AND SALVAGE
R/C	RATE OF CHANGE
RCA	REINFORCED CONCRETE ARCH
RCB	REINFORCED CONCRETE BOX
RCP	REINFORCED CONCRETE PIPE
RCPA	REINFORCED CONCRETE PIPE ARCH
Rd	ROAD
Reinf	REINFORCED,
	REINFORCEMENT,
	REINFORCING
Rel	RELOCATE
Repl	REPLACEMENT
Ret	RETAINING
Rev	REVISED, REVISION
Rdwy	ROADWAY
RHMA	RUBBERIZED HOT MIX ASPHALT
Riv	RIVER
RM	ROAD-MIXED
RP	RADIUS POINT,
	REFERENCE POINT
RR	RAILROAD
RSP	ROCK SLOPE PROTECTION,
	REVISED STANDARD PLAN
Rt	RIGHT
Rte	ROUTE
RW	REDWOOD,
	RETAINING WALL
R/W	RIGHT OF WAY
Rwy	RAILWAY

S

S	SOUTH,
	SUPPLEMENT
SAE	STRUCTURE APPROACH EMBANKMENT
Salv	SALVAGE
SAPP	STRUCTURAL ALUMINUM PLATE PIPE
SB	SOUTHBOUND
SC	SAND CUSHION
SCSP	SLOTTED CORRUGATED STEEL PIPE
SD	STORM DRAIN
Sec	SECOND,
	SECTION
Sep	SEPARATION
SG	SUBGRADE
Shld	SHOULDER
Sht	SHEET
Sim	SIMILAR
℄	STATION LINE
SM	SELECTED MATERIAL
Spec	SPECIAL,
	SPECIFICATIONS
SPP	SLOTTED PLASTIC PIPE
SS	SLOPE STAKE
SSBM	STRAP AND SADDLE BRACKET METHOD
SSD	STRUCTURAL SECTION DRAIN
SSPA	STRUCTURAL STEEL PLATE ARCH
SSPP	STRUCTURAL STEEL PLATE PIPE
SSPPA	STRUCTURAL STEEL PLATE PIPE ARCH
SSRP	STEEL SPIRAL RIB PIPE
St	STREET
Sta	STATION
STBB	SINGLE THRIE BEAM BARRIER
Std	STANDARD
Str	STRUCTURE
Surf	SURFACING
SW	SIDEWALK,
	SOUND WALL
Swr	SEWER
Sym	SYMMETRICAL
S4S	SURFACE 4 SIDES

T

T	SEMI-TANGENT
Tan	TANGENT
TBB	THRIE BEAM BARRIER
Tbr	TIMBER
TC	TOP OF CURB
TCB	TRAFFIC CONTROL BOX
TCE	TEMPORARY CONSTRUCTION EASEMENT
Tel	TELEPHONE
Temp	TEMPORARY
TG	TOP OF GRADE
Tot	TOTAL
TP	TELEPHONE POLE
TPB	TREATED PERMEABLE BASE
TPM	TREATED PERMEABLE MATERIAL
Trans	TRANSITION

T continued

TS	TRANSVERSE,
	TRAFFIC SIGNAL,
	TUBULAR STEEL
Typ	TYPICAL

U

UC	UNDERCROSSING
UD	UNDERDRAIN
UG	UNDERGROUND
UON	UNLESS OTHERWISE NOTED
UP	UNDERPASS

V

V	VALVE,
	DESIGN SPEED
Var	VARIABLE,
	VARIES
VC	VERTICAL CURVE
VCP	VITRIFIED CLAY PIPE
Vert	VERTICAL
Via	VIADUCT
Vol	VOLUME

W

W	WEST,
	WIDTH
WB	WESTBOUND
WH	WEEP HOLE
WM	WIRE MESH
WS	WATER SURFACE
WSP	WELDED STEEL PIPE
Wt	WEIGHT
WV	WATER VALVE
WW	WINGWALL
WWLOL	WINGWALL LAYOUT LINE

X

X Sec	CROSS SECTION
Xing	CROSSING

Y

Yr	YEAR
Yrs	YEARS

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	SB	1,101, 192,246	Var	51	66

Grace M. Tsushima
REGISTERED CIVIL ENGINEER

July 19, 2013
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER Grace M. Tsushima No. C49814 Exp. 9-30-14 CIVIL STATE OF CALIFORNIA

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

TO ACCOMPANY PLANS DATED 5-27-14

UNIT OF MEASUREMENT SYMBOLS:

Some of the symbols used in the project plan quantity tables and in the Bid Item List are:

TABLE A

SYMBOL USED	DEFINITIONS
ACRE	ACRE
CF	CUBIC FOOT
CY	CUBIC YARD
EA	EACH
GAL	GALLON
LB	POUND
LF	LINEAR FOOT
SQFT	SQUARE FOOT
SQYD	SQUARE YARD
STA	100 FEET
TAB	TABLET
TON	2,000 POUNDS

Some of the symbols used in the plans other than in the project plan quantity tables are:

TABLE B

SYMBOL USED	DEFINITIONS
ksi	KIPS PER SQUARE INCH
ksf	KIPS PER SQUARE FOOT
psi	POUNDS PER SQUARE INCH
psf	POUNDS PER SQUARE FOOT
lb/ft^3, pcf	POUNDS PER CUBIC FOOT
tsf	TONS PER SQUARE FOOT
mph, MPH *	MILES PER HOUR
ø	NOMINAL DIAMETER
oz	OUNCE
lb	POUND
kip	1,000 POUNDS
cal	CALORIE
ft	FOOT OR FEET
gal	GALLON

* For use on a sign panel only

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

ABBREVIATIONS (SHEET 2 OF 2)

NO SCALE

RSP A10B DATED JULY 19, 2013 SUPERSEDES STANDARD PLAN A10B DATED MAY 20, 2011 - PAGE 2 OF THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP A10B

2010 REVISED STANDARD PLAN RSP A10B

6-7-13

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	SB	1,101, 192,246	Var	52	66

REGISTERED CIVIL ENGINEER

April 20, 2012
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
Roberta L. McLaughlin
No. C40375
Exp. 3-31-13
CIVIL
STATE OF CALIFORNIA

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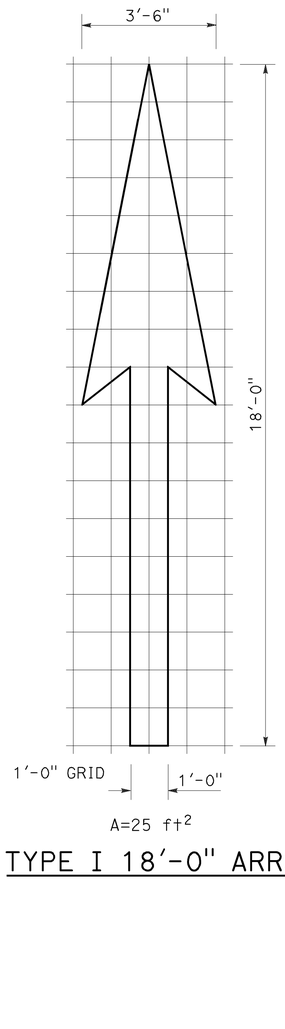
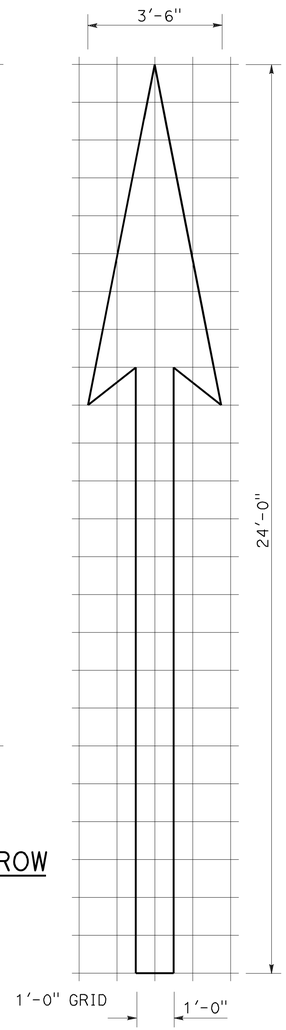
TO ACCOMPANY PLANS DATED 5-27-14



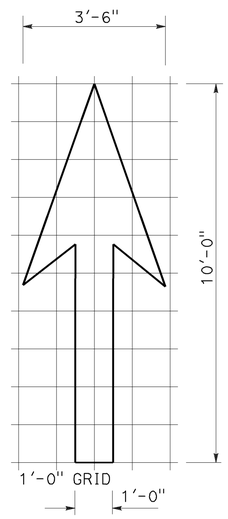
A=25 ft^2

TYPE I 18'-0" ARROW



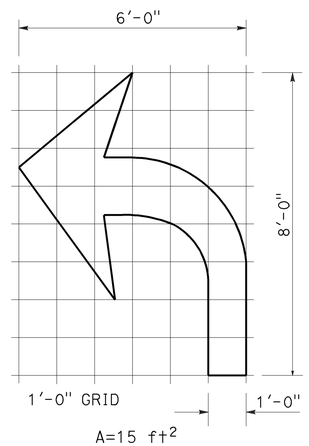
A=31 ft^2

TYPE I 24'-0" ARROW



A=14 ft^2

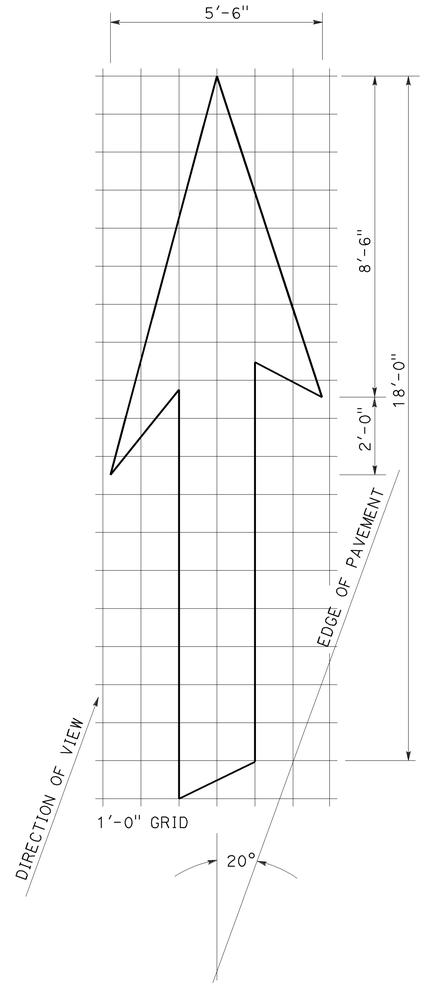
TYPE I 10'-0" ARROW



A=15 ft^2

TYPE IV (L) ARROW

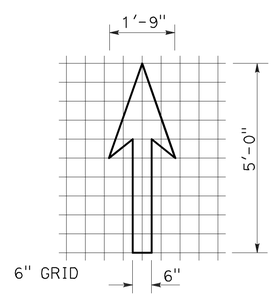
(For Type IV (R) arrow, use mirror image)



A=42 ft^2

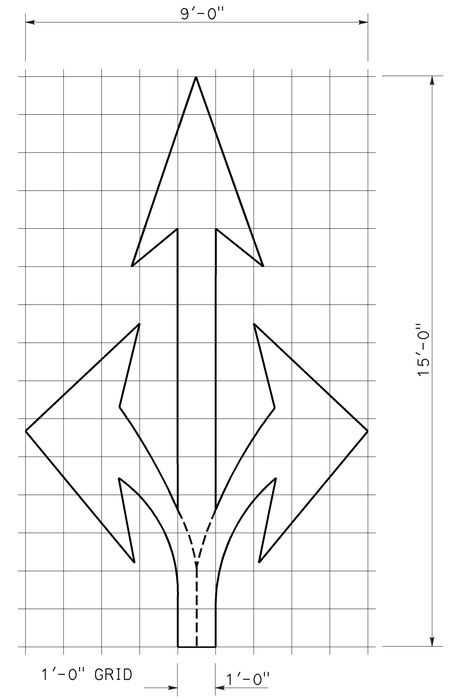
TYPE VI ARROW

Right lane drop arrow
(For left lane, use mirror image)



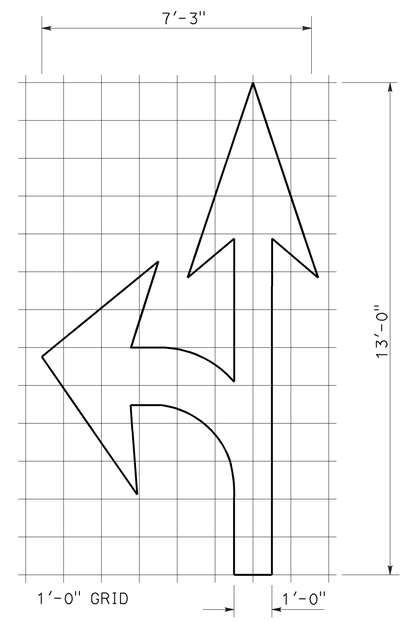
A=3.5 ft^2

BIKE LANE ARROW



A=36 ft^2

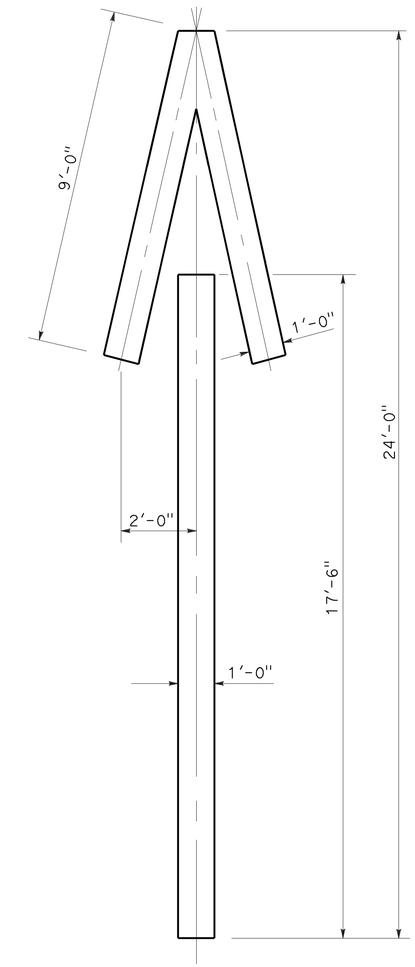
TYPE VIII ARROW



A=27 ft^2

TYPE VII (L) ARROW

(For Type VII (R) arrow, use mirror image)



A=33 ft^2

TYPE V ARROW

NOTE:
Minor variations in dimensions may be accepted by the Engineer.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKINGS ARROWS

NO SCALE

RSP A24A DATED APRIL 20, 2012 SUPERSEDES STANDARD PLAN A24A DATED MAY 20, 2011 - PAGE 13 OF THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP A24A

2010 REVISED STANDARD PLAN RSP A24A

3-14-12

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	SB	1,101, 192,246	Var	53	66

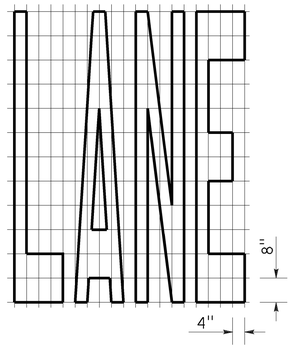
REGISTERED CIVIL ENGINEER

July 20, 2012
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
Roberta L. McLaughlin
No. C40375
Exp. 3-31-13
CIVIL
STATE OF CALIFORNIA

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

TO ACCOMPANY PLANS DATED 5-27-14



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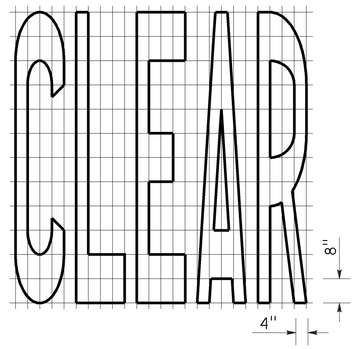

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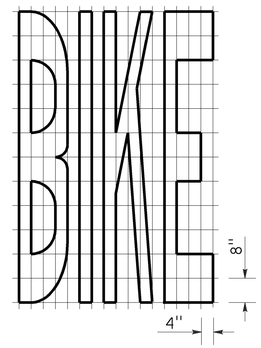

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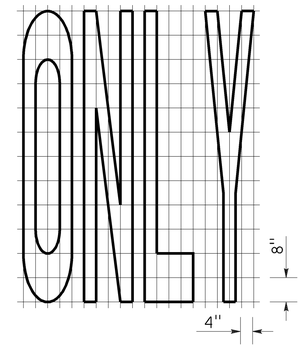

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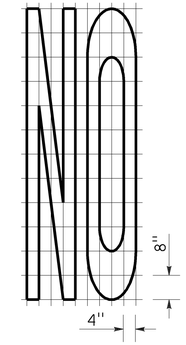

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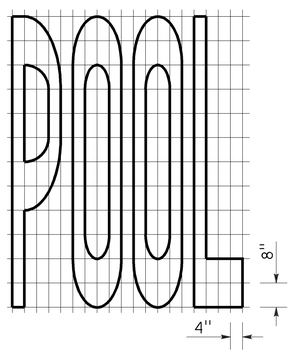

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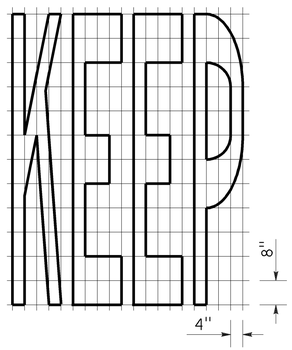
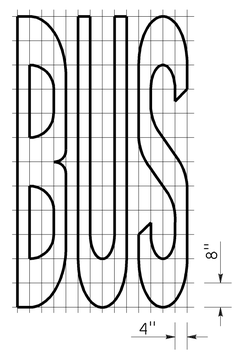
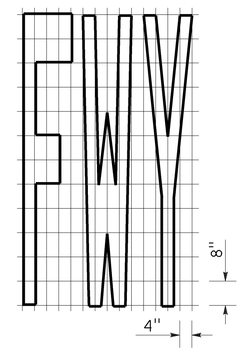


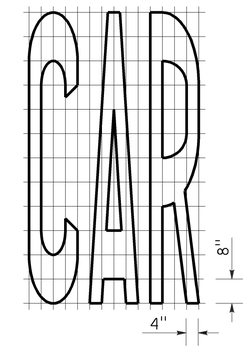
A=24 ft²



A=20 ft²

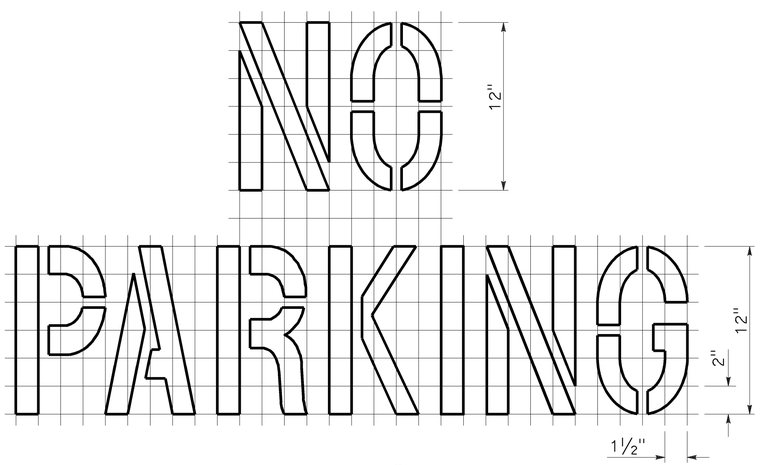


A=16 ft²

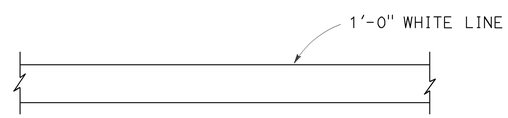


A=17 ft²

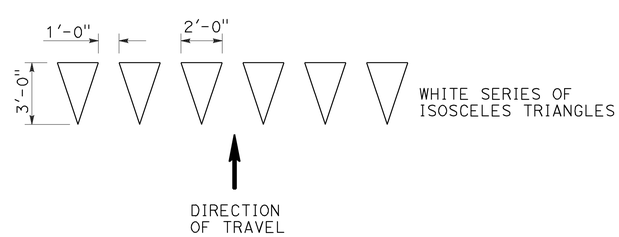
WORD MARKINGS			
ITEM	ft²	ITEM	ft²
LANE	24	NO	14
POOL	23	BIKE	21
CAR	17	BUS	20
CLEAR	27	ONLY	22
KEEP	24	FWY	16



A=2 ft²
See Notes 6 and 7



LIMIT LINE (STOP LINE)



YIELD LINE

NOTES:

1. If a message consists of more than one word, it should read "UP", i.e., the first word should be nearest the driver.
2. The space between words should be at least four times the height of the characters for low speed roads, but not more than ten times the height of the characters. The space may be reduced appropriately where there is limited space because of local conditions.
3. Minor variations in dimensions may be accepted by the Engineer.
4. Portions of a letter, number or symbol may be separated by connecting segments not to exceed 2" in width.
5. The words "NO PARKING" pavement marking is to be used for parking facilities. For typical locations of markings, see Standard Plans A90A and A90B.
6. The words "NO PARKING", shall be painted in white letters no less than 1'-0" high on a contrasting background and located so that it is visible to traffic enforcement officials.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKINGS WORDS, LIMIT AND YIELD LINES

NO SCALE

RSP A24E DATED JULY 20, 2012 SUPERSEDES STANDARD PLAN A24E
DATED MAY 20, 2011 - PAGE 17 OF THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP A24E

2010 REVISED STANDARD PLAN RSP A24E

6-12-12

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	SB	1,101, 192,246	Var	54	66

REGISTERED CIVIL ENGINEER

July 20, 2012
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
Roberta L. McLaughlin
No. C40375
Exp. 3-31-13
CIVIL
STATE OF CALIFORNIA

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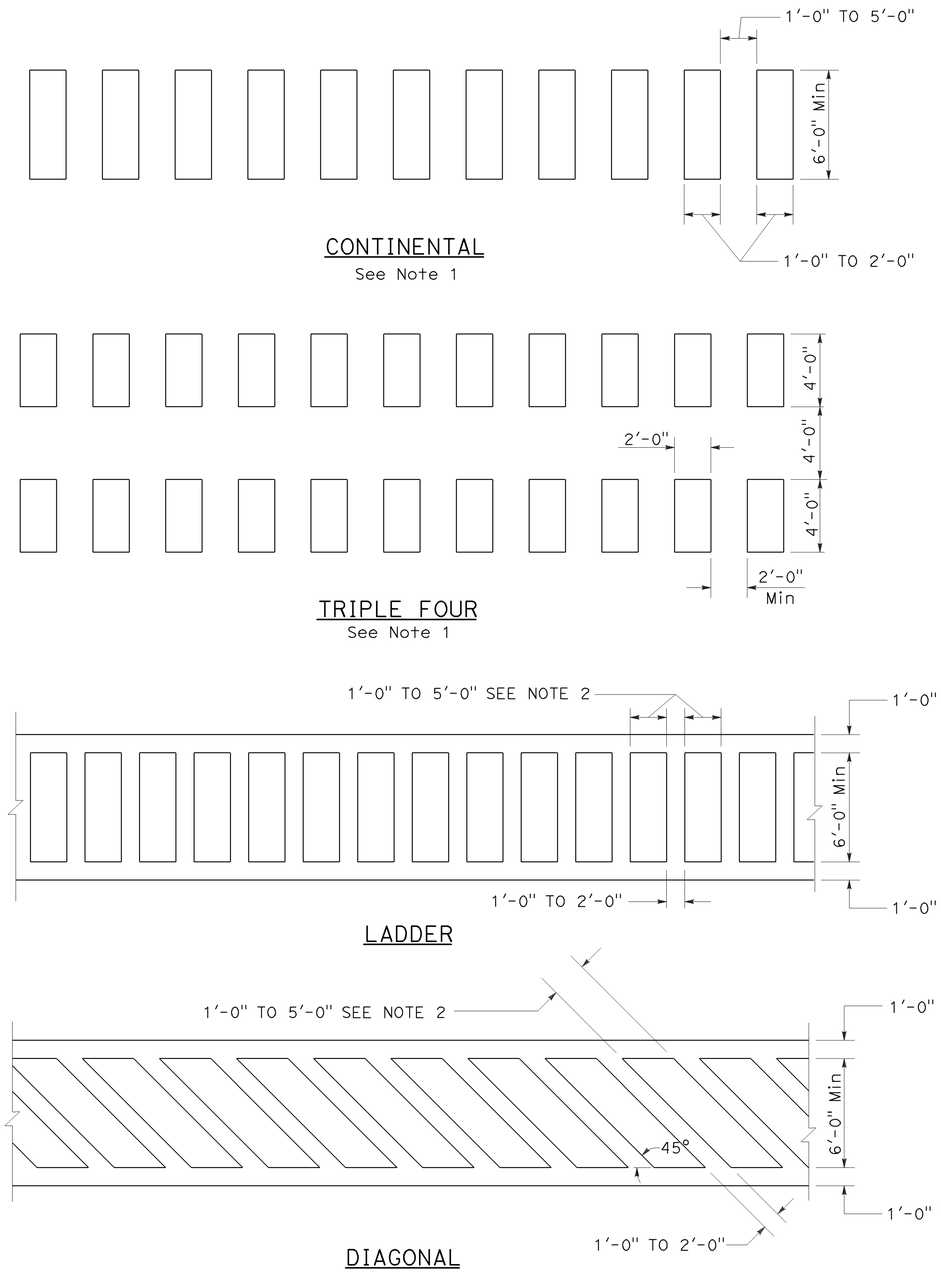
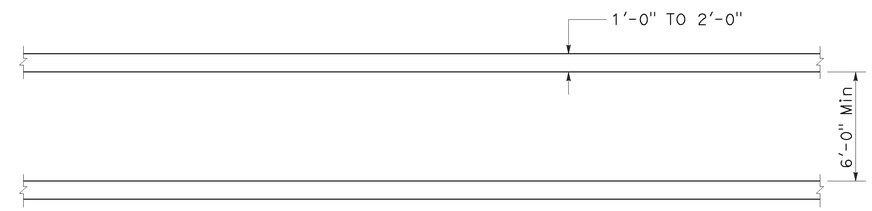
TO ACCOMPANY PLANS DATED 5-27-14



HIGHER VISIBILITY CROSSWALKS

NOTES:

1. Spaces between markings should be placed in wheel tracks of each lane.
2. Spacings not to exceed 2.5 times width of longitudinal line.
3. All crosswalk markings must be white except for those near schools must be yellow.



BASIC

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKINGS CROSSWALKS

NO SCALE

RSP A24F DATED JULY 20, 2012 SUPPLEMENTS THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP A24F

2010 REVISED STANDARD PLAN RSP A24F

6-28-12

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	SB	1,101, 192,246	Var	55	66

REGISTERED CIVIL ENGINEER

July 19, 2013
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER Michael Janzen No. 44788 Exp. 03-31-14 CIVIL STATE OF CALIFORNIA

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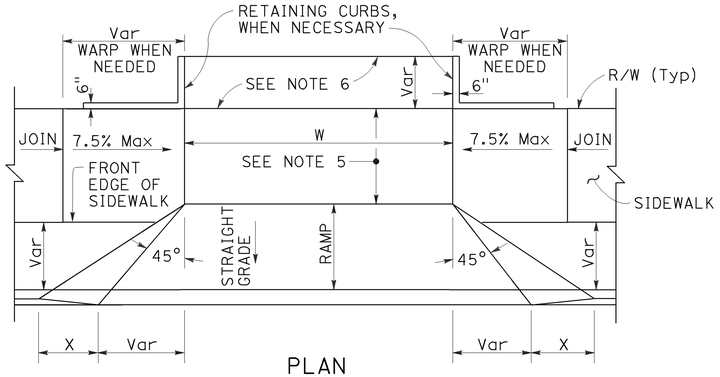
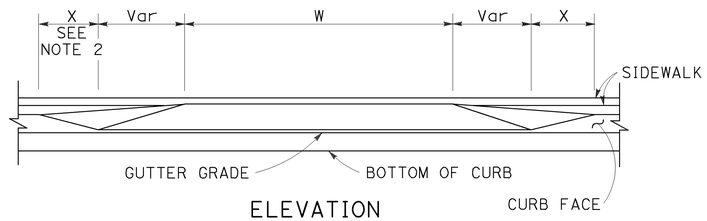
TO ACCOMPANY PLANS DATED 5-27-14

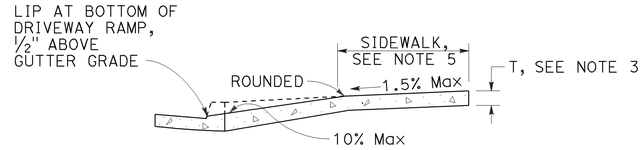
2010 REVISED STANDARD PLAN RSP A87A



PLAN

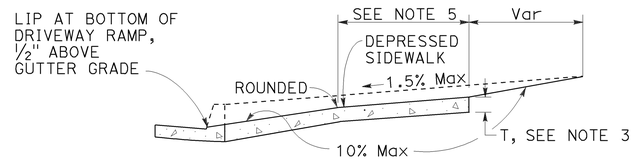


ELEVATION



CASE A

Typical driveway, sidewalk not depressed

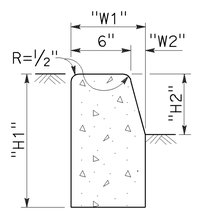


CASE B

Driveway with depressed sidewalk

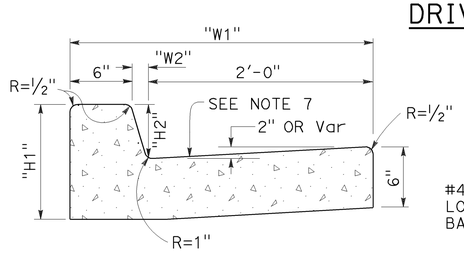
SECTIONS

DRIVEWAYS



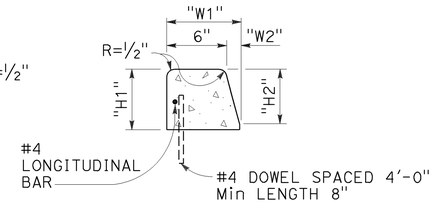
TYPE A1 CURBS

See Table A



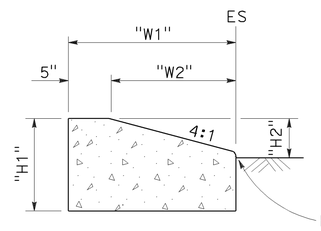
TYPE A2 CURBS

See Table A



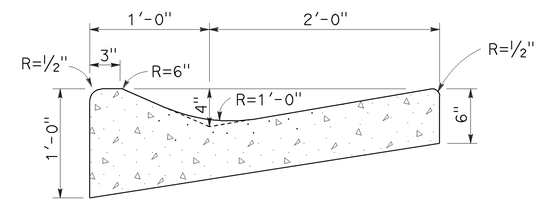
TYPE A3 CURBS

Superimposed on existing pavement
See Table A

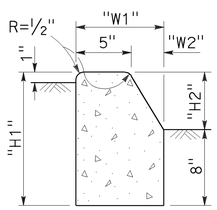


TYPE D CURBS

See Table A

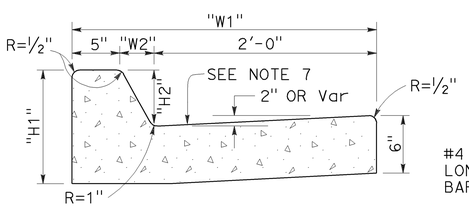


TYPE E CURB



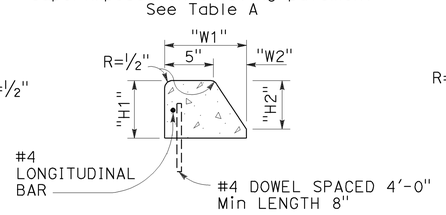
TYPE B1 CURBS

See Table A



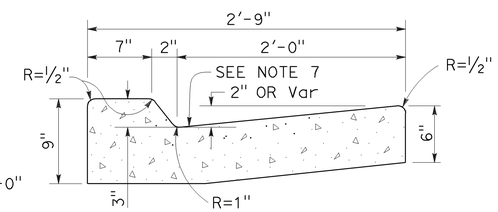
TYPE B2 CURBS

See Table A

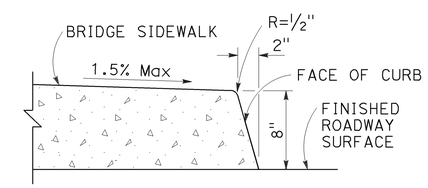


TYPE B3 CURBS

Superimposed on existing pavement
See Table A



TYPE B4 CURBS



TYPE H CURB

On Bridges

CURBS

TABLE A

CURB TYPE	DIMENSIONS			
	"H1"	"H2"	"W1"	"W2"
A1-6	1'-2"	6"	7½"	1½"
A1-8	1'-4"	8"	8"	2"
A2-6	1'-0"	6"	2'-7½"	1½"
A2-8	1'-2"	8"	2'-8"	2"
A3-6	6"	5"	7¼"	1¼"
A3-8	8"	7"	7¾"	1¾"
B1-4	1'-0"	4"	7½"	2½"
B1-6	1'-2"	6"	9"	4"
B2-4	10"	4"	2'-7½"	2½"
B2-6	1'-0"	6"	2'-9"	4"
B3-4	4"	3"	7"	2"
B3-6	6"	5"	8½"	3½"
D-4	10"	4"	1'-6"	1'-1"
D-6	1'-0"	6"	2'-2"	1'-9"

CURB QUANTITIES

TYPE	CUBIC YARDS PER LINEAR FOOT
A1-6	0.02585
A1-8	0.03084
A2-6	0.05903
A2-8	0.06379
A3-6	0.01036
A3-8	0.01435
B1-4	0.02185
B1-6	0.02930
B2-4	0.05515
B2-6	0.06171
B3-4	0.00641
B3-6	0.01074
B4	0.05709
D-4	0.04083
D-6	0.06804
E	0.06661

NOTES:

1. Case A driveway section typically applies.
2. X=3'-0" except for curb heights over 10" where 4:1 slopes shall be used on curb slope.
3. Sidewalk and ramp thickness "T" at driveway shall be 4" for residental and 6" for commercial.
4. Difference in slope of the driveway ramp and the slope of a line between the gutter and a point on the roadway 5'-0" from gutter line shall not exceed 15%. Reduce driveway ramp slope, not gutter slope, where required.
5. Minimum width of clear passageway for sidewalk shall be 4'-2".
6. Retaining curbs and acquisition of construction easement may be necessary for narrow sidewalks or curb heights in excess of 6".
7. Across the pedestrian route at curb ramp locations, the gutter pan slope shall not exceed 1" of depth for each 2'-0" of width.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

CURBS AND DRIVEWAYS

NO SCALE

RSP A87A DATED JULY 19, 2013 SUPERSEDES STANDARD PLAN A87A DATED MAY 20, 2011 - PAGE 119 OF THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP A87A

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	SB	1,101, 192,246	Var	56	66

REGISTERED CIVIL ENGINEER

March 21, 2014
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER Hector David Cordova No. C41957 Exp. 3-31-14 CIVIL STATE OF CALIFORNIA

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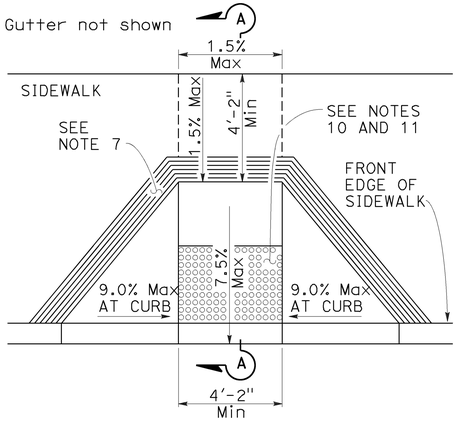
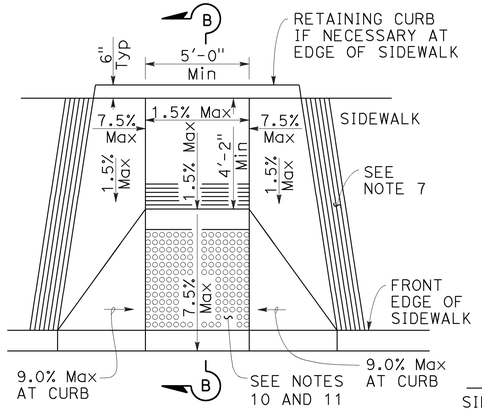
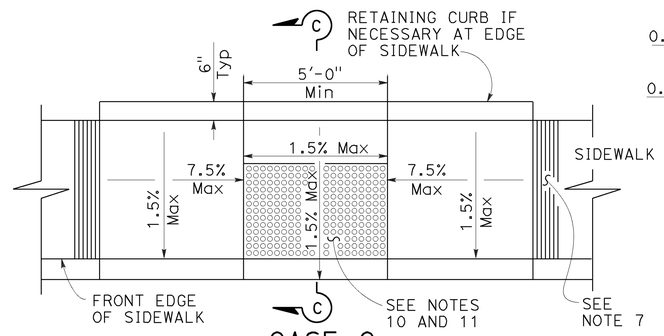
TO ACCOMPANY PLANS DATED 5-27-14



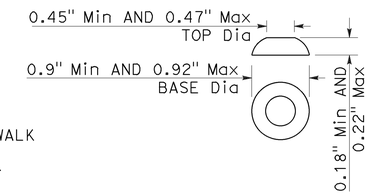
CASE A



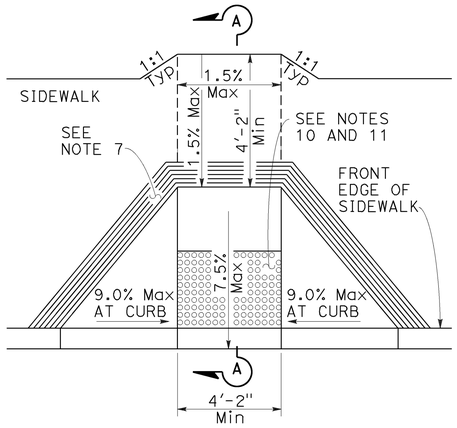
CASE B



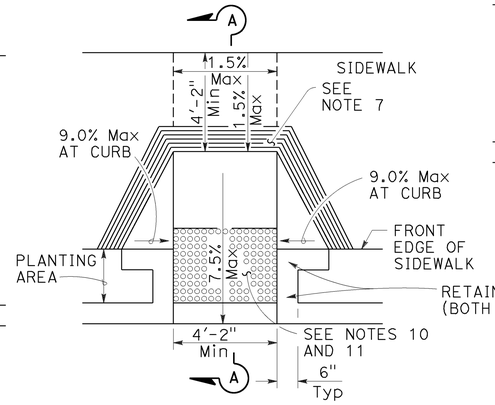
CASE C



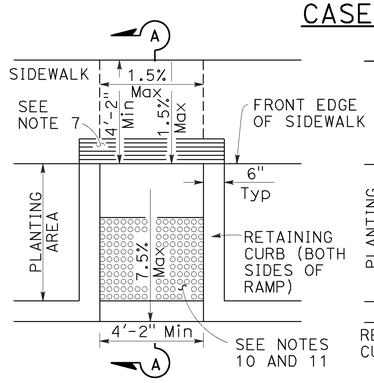
RAISED TRUNCATED DOME



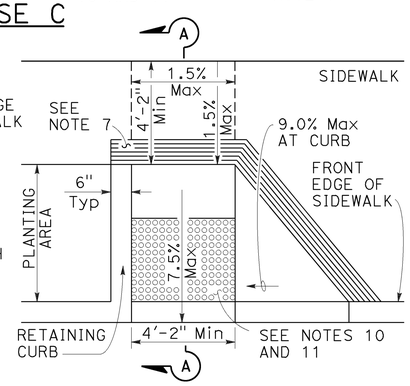
CASE D



CASE E

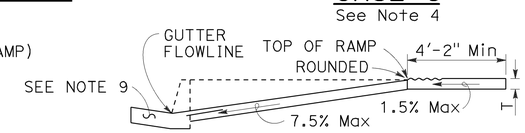


CASE F

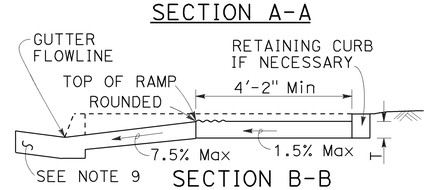


CASE G

See Note 4

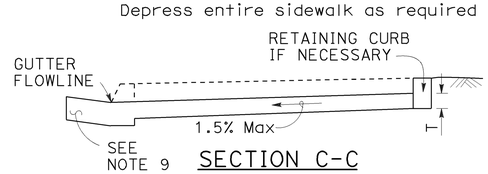


SECTION A-A

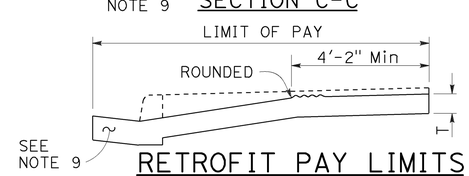


SECTION B-B

Depress entire sidewalk as required

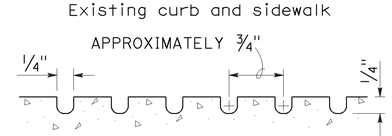


SECTION C-C

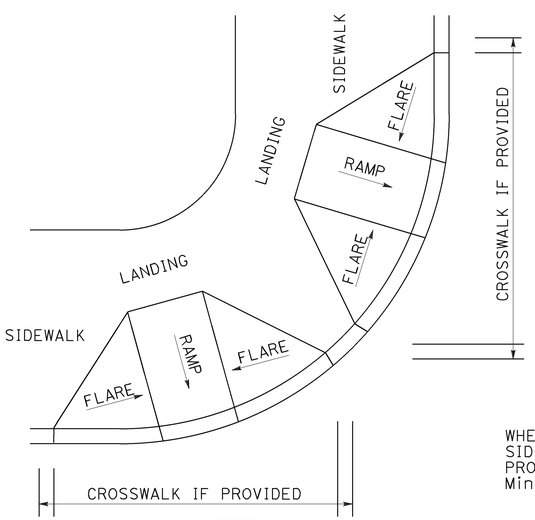


RETROFIT PAY LIMITS

Existing curb and sidewalk



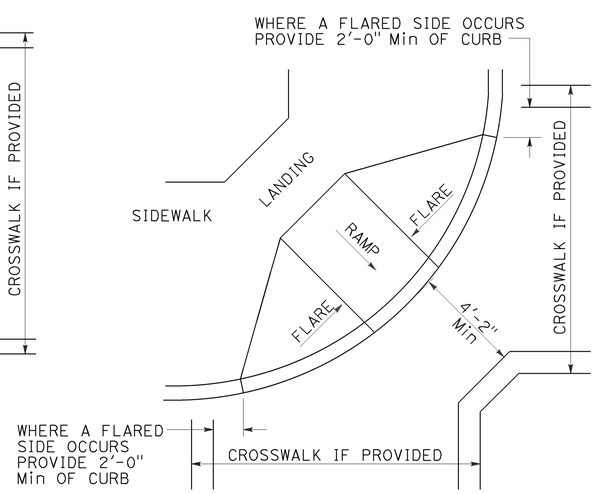
GROOVING DETAIL



DETAIL A

TYPICAL TWO-RAMP CORNER INSTALLATION

See Note 1



DETAIL B

TYPICAL ONE-RAMP CORNER INSTALLATION

See Notes 1 and 3

NOTES:

1. As site conditions dictate, Case A through Case G curb ramps may be used for corner installations similar to those shown in Detail A and Detail B. The case of curb ramps used in Detail A do not have to be the same. Case A through Case G curb ramps also may be used at mid block locations, as site conditions dictate.
2. If distance from curb to back of sidewalk is too short to accommodate ramp and 4'-2" platform (landing) as shown in Case A, the sidewalk may be depressed longitudinally as in Case B, or C or may be widened as in Case D.
3. When ramp is located in center of curb return, crosswalk configuration must be similar to that shown for Detail B.
4. As site conditions dictate, the retaining curb side and the flared side of the Case G ramp shall be constructed in reversed position.
5. If located on a curve, the sides of the ramp need not be parallel, but the minimum width of the ramp shall be 4'-2".
6. Side slope of ramp flares vary uniformly from a maximum of 9.0% at curb to conform with longitudinal sidewalk slope adjacent to top of the ramp, except in Case C and Case F.
7. The curb ramp shall be outlined, as shown, with a 1'-0" wide border with 1/4" grooves approximately 3/4" on center. See grooving detail.
8. Transitions from ramps and landing to walks, gutters or streets shall be flush (no lip) and free of abrupt changes.
9. Counter slopes of adjoining gutters and road surfaces immediately adjacent to and within 24 inches of the curb ramp shall not be steeper than 1:20 (5.0%). Gutter pan slope shall not exceed 1" of depth for each 2'-0" of width.
10. Curb ramps shall have a detectable warning surface that extends the full width and 3'-0" depth of the ramp. A 4'-0" wide detectable warning surface may be used on a 4'-2" wide curb ramp. Detectable Warning Surfaces shall conform to the requirements in the Standard Specifications.
11. The edge of the detectable warning surface nearest the street shall be between 6" and 8" from the gutter flowline.
12. Sidewalk and ramp thickness, "T", shall be 3 1/2" minimum.
13. Utility pull boxes, manholes, vaults and all other utility facilities within the boundaries of the curb ramp will be relocated or adjusted to grade by the owner prior to, or in conjunction with, curb ramp construction.
14. Detectable warning surface may have to be cut to allow removal of utility covers while maintaining full detectable warning width and depth.

RAISED TRUNCATED DOME PATTERN (IN-LINE)

DETECTABLE WARNING SURFACE

See Note 10

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

CURB RAMP DETAILS

NO SCALE

RSP A88A DATED MARCH 21, 2014 SUPERSEDES RSP A88A DATED JULY 19, 2013 AND STANDARD PLAN A88A DATED MAY 20, 2011 - PAGE 121 OF THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP A88A

2010 REVISED STANDARD PLAN RSP A88A

2-25-14

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	SB	1,101, 192,246	Var	57	66

H. David Cordova
REGISTERED CIVIL ENGINEER

March 21, 2014
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
Hector David Cordova
No. C41957
Exp. 3-31-14
CIVIL
STATE OF CALIFORNIA

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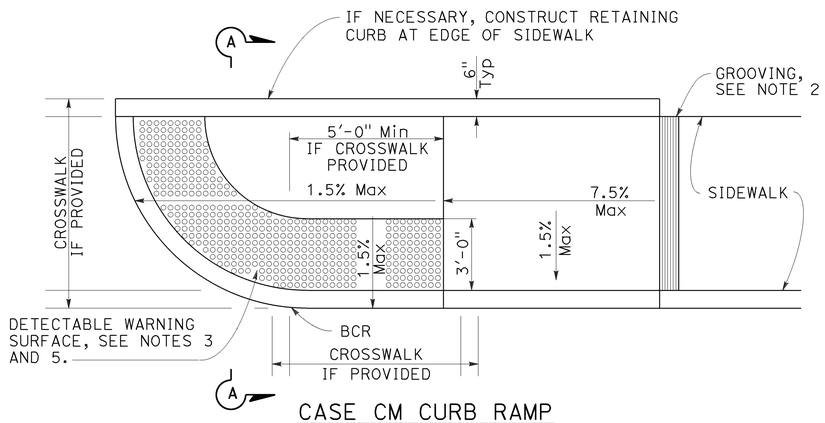
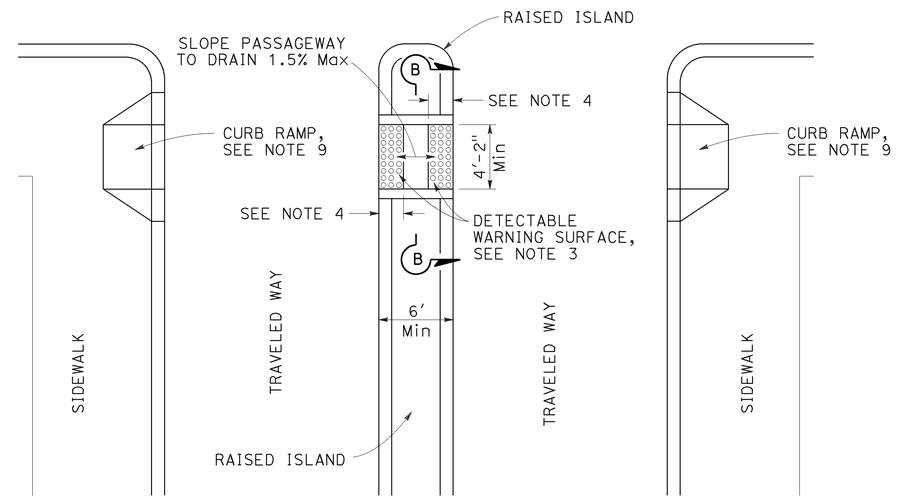
TO ACCOMPANY PLANS DATED 5-27-14

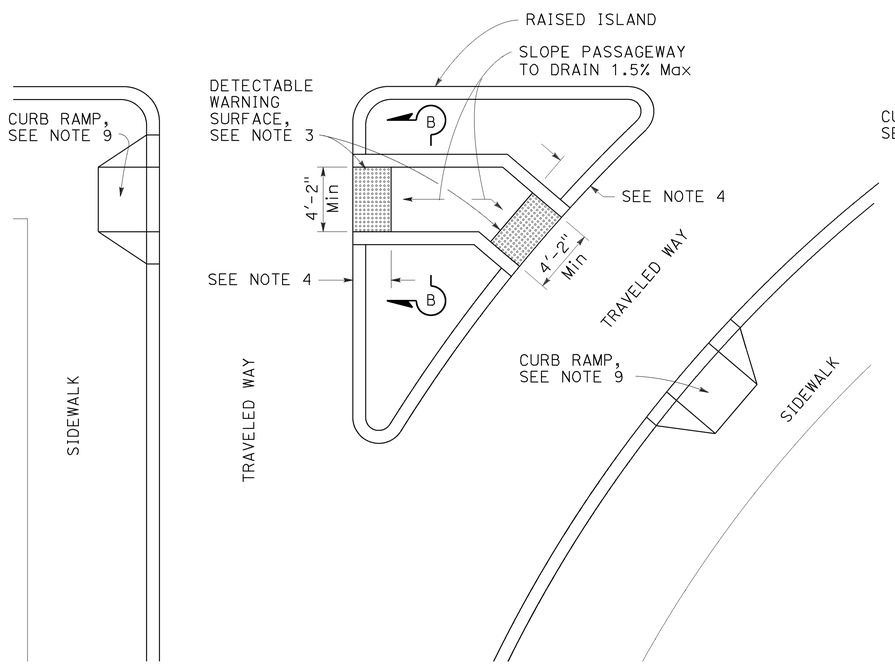
Gutter not shown



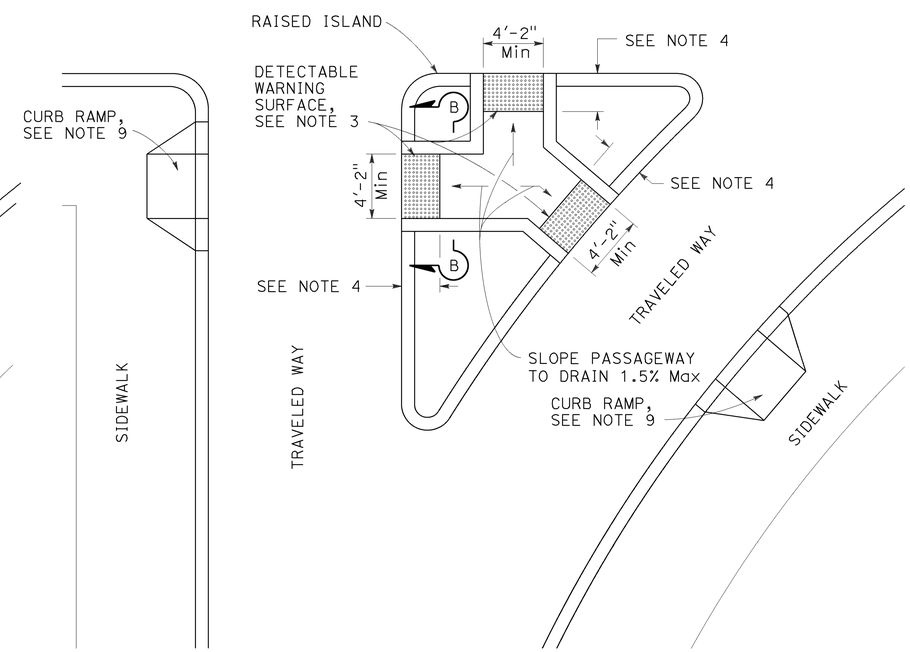
CASE CM CURB RAMP



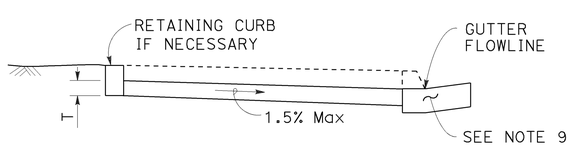
TYPE A PASSAGEWAY



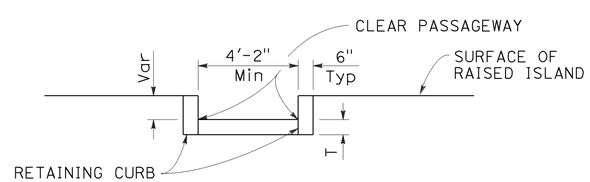
TYPE B PASSAGEWAY



TYPE C PASSAGEWAY



SECTION A-A



SECTION B-B

NOTES:

1. Sidewalk, ramp and passageway thickness, "T", shall be 3½" minimum.
2. For details of grooving used with Case CM curb ramp, see Revised Standard Plan RSP A88A.
3. For details of detectable warning surfaces, see Revised Standard Plan RSP A88A.
4. Where an island passageway length is greater than or equal to 6'-0", but less than 8'-0", each detectable warning surface shall extend the full width and 2'-0" depth of the passageway length. Where an island passageway length is greater than or equal to 8'-0", each detectable warning surface shall extend the full width and 3'-0" depth of the passageway length. A 4'-0" wide detectable warning surface may be used on a 4'-2" wide island passageway.
5. For Case CM curb ramp, the edge of the detectable warning surface nearest the street shall be between 6" and 8" from the gutter flowline.
6. Transitions from ramps to walks, gutters or streets shall be flush (no lip) and free of abrupt changes.
7. Utility pull boxes, manholes, vaults and all other utility facilities within the boundaries of the curb ramp will be relocated or adjusted to grade by the owner prior to, or in conjunction with, curb ramp construction.
8. Detectable warning surface may have to be cut to allow removal of utility covers while maintaining full detectable warning width and depth.
9. For additional curb ramp details, see Revised Standard Plan RSP A88A.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

CURB RAMP AND ISLAND PASSAGEWAY DETAILS

NO SCALE

RSP A88B DATED MARCH 21, 2014 SUPERSEDES RSP A88B DATED JULY 19, 2013 AND STANDARD PLAN A88B DATED MAY 20, 2011 - PAGE 122 OF THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP A88B

2010 REVISED STANDARD PLAN RSP A88B

2-25-14

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	SB	1,101, 192,246	Var	58	66

REGISTERED CIVIL ENGINEER

July 19, 2013
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
Gurinderpal Bhullar
No. C48815
Exp. 9-30-14
CIVIL
STATE OF CALIFORNIA

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

TO ACCOMPANY PLANS DATED 5-27-14

2010 REVISED STANDARD PLAN RSP T9

TABLE 1

TAPER LENGTH CRITERIA AND CHANNELIZING DEVICE SPACING

SPEED (S)	MINIMUM TAPER LENGTH * FOR WIDTH OF OFFSET 12 FEET (W)				MAXIMUM CHANNELIZING DEVICE SPACING		
					X	Y	Z **
	TANGENT 2L	MERGING L	SHIFTING L/2	SHOULDER L/3	TAPER	TANGENT	CONFLICT
mph	ft	ft	ft	ft	ft	ft	ft
20	160	80	40	27	20	40	10
25	250	125	63	42	25	50	12
30	360	180	90	60	30	60	15
35	490	245	123	82	35	70	17
40	640	320	160	107	40	80	20
45	1080	540	270	180	45	90	22
50	1200	600	300	200	50	100	25
55	1320	660	330	220	55	110	27
60	1440	720	360	240	60	120	30
65	1560	780	390	260	65	130	32
70	1680	840	420	280	70	140	35

* - For other offsets, use the following merging taper length formula for L:
For speed of 40 mph or less, $L = WS^2/60$
For speed of 45 mph or more, $L = WS$

Where: L = Taper length in feet
W = Width of offset in feet
S = Posted speed limit, off-peak 85th-percentile speed prior to work starting, or the anticipated operating speed in mph

** - Use for taper and tangent sections where there are no pavement markings or where there is a conflict between existing pavement markings and channelizers (CA).

TABLE 2

LONGITUDINAL BUFFER SPACE AND FLAGGER STATION SPACING

SPEED *	Min D **	DOWNGRADE Min D ***		
		-3%	-6%	-9%
mph	ft	ft	ft	ft
20	115	116	120	126
25	155	158	165	173
30	200	205	215	227
35	250	257	271	287
40	305	315	333	354
45	360	378	400	427
50	425	446	474	507
55	495	520	553	593
60	570	598	638	686
65	645	682	728	785
70	730	771	825	891

* - Speed is posted speed limit, off-peak 85th-percentile speed prior to work starting, or the anticipated operating speed in mph

** - Longitudinal buffer space or flagger station spacing

*** - Use on sustained downgrade steeper than -3 percent and longer than 1 mile.

TABLE 3

ADVANCE WARNING SIGN SPACING

ROAD TYPE	DISTANCE BETWEEN SIGNS *		
	A	B	C
	ft	ft	ft
URBAN - 25 mph OR LESS	100	100	100
URBAN - MORE THAN 25 mph TO 40 mph	250	250	250
URBAN - MORE THAN 40 mph	350	350	350
RURAL	500	500	500
EXPRESSWAY / FREEWAY	1000	1500	2640

* - The distances are approximate, are intended for guidance purposes only, and should be applied with engineering judgment. These distances should be adjusted by the Engineer for field conditions, if necessary, by increasing or decreasing the recommmended distances.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL SYSTEM TABLES FOR LANE AND RAMP CLOSURES

NO SCALE

RSP T9 DATED JULY 19, 2013 SUPERSEDES RSP T9 DATED APRIL 19, 2013 THAT SUPPLEMENTS THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP T9

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	SB	1,101, 192,246	Var	59	66

REGISTERED CIVIL ENGINEER

April 19, 2013
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER Gurinderpal Bhullar No. C48815 Exp. 9-30-14 CIVIL STATE OF CALIFORNIA

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TO ACCOMPANY PLANS DATED 5-27-14

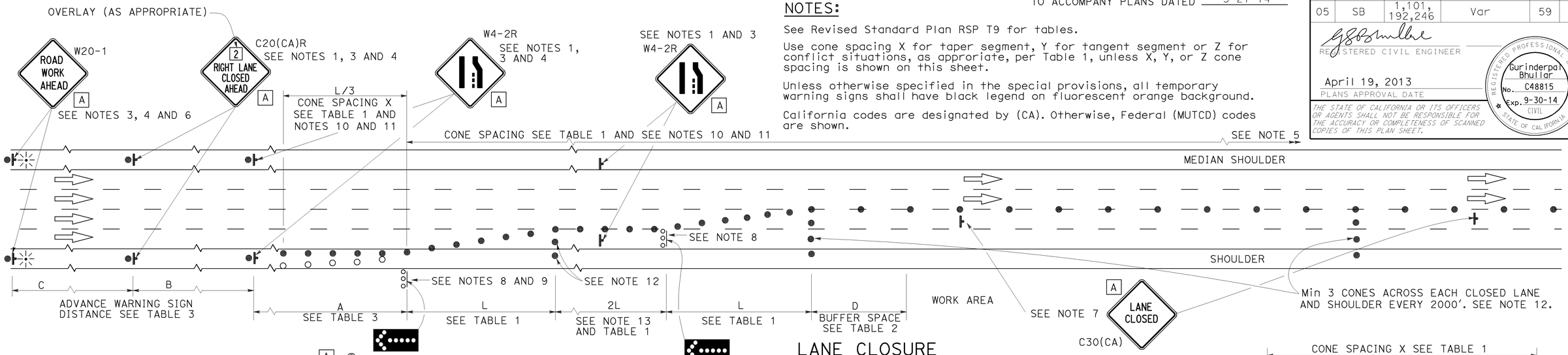
NOTES:

See Revised Standard Plan RSP T9 for tables.

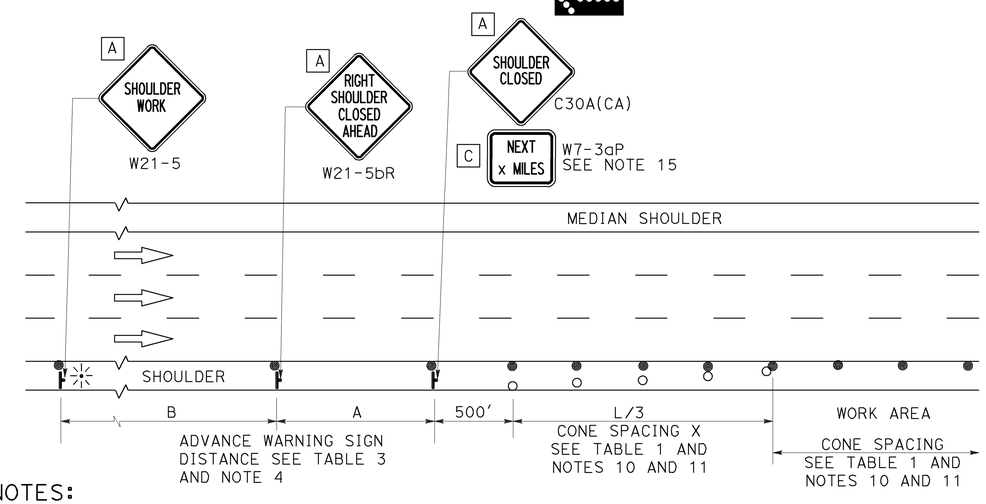
Use cone spacing X for taper segment, Y for tangent segment or Z for conflict situations, as approriate, per Table 1, unless X, Y, or Z cone spacing is shown on this sheet.

Unless otherwise specified in the special provisions, all temporary warning signs shall have black legend on fluorescent orange background.

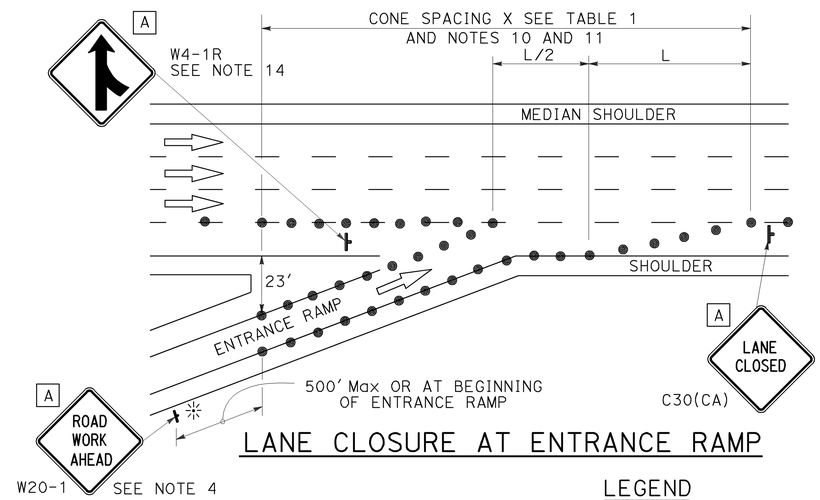
California codes are designated by (CA). Otherwise, Federal (MUTCD) codes are shown.



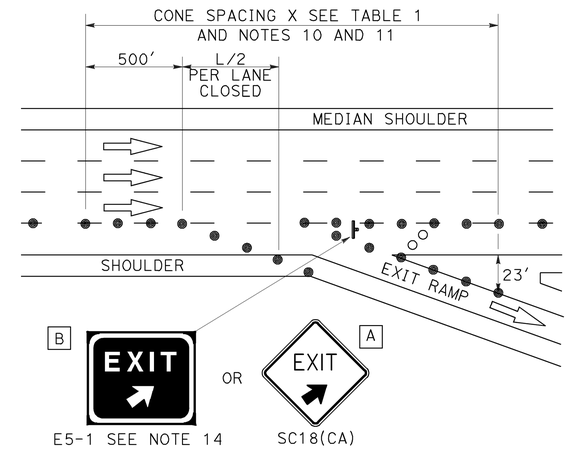
LANE CLOSURE



SHOULDER CLOSURE



LANE CLOSURE AT ENTRANCE RAMP



LANE CLOSURE AT EXIT RAMP

NOTES:

1. Median lane closures shall conform to the details as shown except that C20(CA)L and W4-2L signs shall be used.
2. At least one person shall be assigned to provide full time maintenance of traffic control devices for lane closures.
3. Duplicate sign installations are not required:
   a) On opposite shoulder if at least one-half of the available lanes remain open to traffic.
   b) In the median if the width of the median shoulder is less than 8' and the outside lanes are to be closed.
4. Each advance warning sign on each side of the roadway shall be equipped with at least two flags for daytime closure. Each flag shall be at least 16" x 16" in size and shall be orange or fluorescent red-orange in color. Flashing beacons shall be placed at the locations indicated for lane closure during hours of darkness.
5. A G20-2 "END ROAD WORK" sign, with minimum size of 48" x 24" as appropriate, shall be placed at the end of the lane closure unless the end of work area is obvious or ends within a larger project's limits.
6. If the W20-1 sign would follow within 2000' of a stationary W20-1 or G20-1 "ROAD WORK NEXT _____ MILES", use a C20(CA) sign for the first advance warning sign.
7. Place a C30(CA) sign every 2000' throughout length of lane closure.
8. One flashing arrow sign for each lane closed. The flashing arrow signs shall be Type I.
9. A minimum 1500' of sight distance shall be provided where possible for vehicles approaching the first flashing arrow sign. Lane closures shall not begin at top of crest vertical curve or on a horizontal curve.
10. All cones used for lane closures during the hours of darkness shall be fitted with retroreflective bands (or sleeves) as specified in the specifications.
11. Portable delineators, placed at one-half the spacing indicated for traffic cones may be used instead of cones for daytime closures only.
12. Unless otherwise specified in the special provisions, a minimum of 3 cones shall be placed transversely across each closed lane and shoulder at each location where a taper across a traffic lane ends and every 2000' as shown on the "Lane Closure" detail. Two Type II barricades may be used instead of the 3 cones. The transverse alignment of the cones or barricades on the closed shoulder may be shifted from the transverse alignment to provide access to the work.
13. Unless otherwise specified in the special provisions, the 2L tangent shown along lane lines shall be used between the L tapers required for each closed traffic lane.
14. Unless otherwise specified in the special provisions, the E5-1 or SC18(CA) and W4-1 signs shall be used as shown.
15. A W7-3aP "NEXT____ MILES" plaque must be used if theshoulder closure extends beyond the distance that can be perceived by road users.

LEGEND

- TRAFFIC CONE
- TRAFFIC CONE (OPTIONAL TAPER)
- TEMPORARY TRAFFIC CONTROL SIGN
- FLASHING ARROW SIGN (FAS)
- FAS SUPPORT OR TRAILER
- PORTABLE FLASHING BEACON

SIGN PANEL SIZE (Min)

A	48" x 48"
B	72" x 60"
C	36" x 30"

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL SYSTEM FOR LANE CLOSURE ON FREEWAYS AND EXPRESSWAYS

NO SCALE

RSP T10 DATED APRIL 19, 2013 SUPERSEDES STANDARD PLAN T10 DATED MAY 20, 2011 - PAGE 237 OF THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP T10

2010 REVISED STANDARD PLAN RSP T10

12-18-12

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	SB	1,101, 192,246	Var	60	66

Theresa Gabriel
REGISTERED ELECTRICAL ENGINEER

July 19, 2013
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER Theresa Aziz Gabriel No. E15129 Exp. 6-30-14 ELECTRICAL STATE OF CALIFORNIA

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TO ACCOMPANY PLANS DATED 5-27-14

LEGEND:

AB	ABANDON. IF APPLIED TO CONDUIT, REMOVE CONDUCTORS
BC	INSTALL PULL BOX IN EXISTING CONDUIT RUN
BP	PEDESTRIAN BARRICADE, TYPE AS INDICATED ON PLAN
CB	INSTALL CONDUIT INTO EXISTING PULL BOX
CC	CONNECT NEW AND EXISTING CONDUIT. REMOVE EXISTING CONDUCTORS AND INSTALL CONDUCTORS AS INDICATED
CF	CONDUIT TO REMAIN FOR FUTURE USE. REMOVE CONDUCTORS. INSTALL PULL TAPE
DH	DETECTOR HANDHOLE
FA	FOUNDATION TO BE ABANDONED
IS	INSTALL SIGN ON SIGNAL MAST ARM
NS	NO SLIP BASE ON STANDARD
PEC	PHOTOELECTRIC CONTROL
PEU	PHOTOELECTRIC UNIT
RC	EQUIPMENT OR MATERIAL TO BE REMOVED AND BECOME THE PROPERTY OF THE CONTRACTOR
RE	REMOVE ELECTROLIER, FUSES AND BALLAST. TAPE ENDS OF CONDUCTORS
RL	RELOCATE EQUIPMENT
RR	REMOVE AND REUSE EQUIPMENT
RS	REMOVE AND SALVAGE EQUIPMENT
SC	SPLICE NEW TO EXISTING CONDUCTORS
SD	SERVICE DISCONNECT
TSP	TELEPHONE SERVICE POINT

ABBREVIATIONS

APS	ACCESSIBLE PEDESTRIAN SIGNAL
BBS	BATTERY BACKUP SYSTEM
BC	BOLT CIRCLE
BPB	BICYCLE PUSH BUTTON
C	CONDUIT
CB	CIRCUIT BREAKER
CCTV	CLOSED CIRCUIT TELEVISION
Ckt	CIRCUIT
CMS	CHANGEABLE MESSAGE SIGN
Ctid	CALTRANS IDENTIFICATION
Comm	COMMUNICATION
DLC	LOOP DETECTOR LEAD-IN CABLE
EMS	EXTINGUISHABLE MESSAGE SIGN
EVUC	EMERGENCY VEHICLE UNIT CABLE
EVUD	EMERGENCY VEHICLE UNIT DETECTOR
FB	FLASHING BEACON
FBCA	FLASHING BEACON CONTROL ASSEMBLY
FBS	FLASHING BEACON WITH SLIP BASE
FO	FIBER OPTIC
G	EQUIPMENT GROUNDING CONDUCTOR
GB	GROUND BUS
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
HAR	HIGHWAY ADVISORY RADIO
Hex	HEXAGONAL
HPS	HIGH PRESSURE SODIUM
IISNS	INTERNALLY ILLUMINATED STREET NAME SIGN
ISL	INDUCTION SIGN LIGHTING
LED	LIGHT EMITTING DIODE
LMA	LUMINAIRE MAST ARM
LPS	LOW PRESSURE SODIUM
Ltg	LIGHTING
Lum	LUMINAIRE
M	METERED
MAT	MAST ARM MOUNTING TOP ATTACHMENT
MAS	MAST ARM MOUNTING SIDE ATTACHMENT
M/M	MULTIPLE TO MULTIPLE TRANSFORMER
Mtg	MOUNTING
MV	MERCURY VAPOR LIGHTING FIXTURE
MVDS	MICROWAVE VEHICLE DETECTION SYSTEM
N	NEUTRAL (GROUNDED CONDUCTOR)
NB	NEUTRAL BUS
NC	NORMALLY CLOSE
NO	NORMALLY OPEN
P	CIRCUIT BREAKER'S POLE
PB	PULL BOX
PBA	PUSH BUTTON ASSEMBLY
PEC	PHOTOELECTRIC CONTROL
Ped	PEDESTRIAN
PEU	PHOTOELECTRIC UNIT
PT	CONDUIT WITH PULL TAPE
RE	RELOCATED EQUIPMENT
RM	RAMP METERING
RWIS	ROADSIDE WEATHER INFORMATION SYSTEM
SB	SLIP BASE
SIC	SIGNAL INTERCONNECT CABLE
Sig	SIGNAL
SMA	SIGNAL MAST ARM
SNS	STREET NAME SIGN
SP	SERVICE POINT
TDC	TELEPHONE DEMARCATION CABINET
TMS	TRAFFIC MONITORING STATION
TOS	TRAFFIC OPERATIONS SYSTEM
Veh	VEHICLE
VIVDS	VIDEO IMAGE VEHICLE DETECTION SYSTEM
WIM	WEIGH-IN-MOTION
Xfmr	TRANSFORMER

SOFFIT AND WALL MOUNTED LUMINAIRES

- PENDANT, 70 W HPS UNLESS OTHERWISE SPECIFIED
- FLUSH, 70 W HPS UNLESS OTHERWISE SPECIFIED
- WALL SURFACE, 70 W HPS UNLESS OTHERWISE SPECIFIED
- EXISTING SOFFIT OR WALL LUMINAIRE TO REMAIN UNMODIFIED
- EXISTING SOFFIT OR WALL LUMINAIRE TO BE MODIFIED AS SPECIFIED

NOTE:

Arrow indicates "street side" of luminaire.

COMMONLY USED SYMBOLS FOR UNITED STATES CUSTOMARY UNITS OF MEASUREMENT:

SYMBOL USED	DEFINITIONS
Ω	OHMS
min	MINUTE
s	SECOND
bps	BITS PER SECOND
Bps	BYTES PER SECOND
A	AMPERE
V	VOLT
V(dc)	VOLT (DIRECT CURRENT)
V(ac)	VOLT (ALTERNATING CURRENT)
FC	FOOT - CANDLE
W	WATTS
VA	VOLT-AMPERE
M	MEGA
k	KILO
m	MILLI
μ	MICRO
P	PICO
Hz	HERTZ

MISCELLANEOUS ELECTROLIERS

NEW	EXISTING	
		LUMINAIRE ON WOOD POLE
		NON-STANDARD ELECTROLIER (SEE PROJECT NOTES OR PROJECT PLANS)
		CITY ELECTROLIER
		ELECTROLIER FOUNDATION (FUTURE INSTALLATION)

NOTES:

1. HPS luminaires shall be 310 W HPS when installed on Type 21, 21D, 30, 31 and 32 Standards, unless otherwise specified. HPS luminaires shall be 200 W when installed on other type standards or poles, unless otherwise specified.
2. LED luminaires shall be 235 W when installed on Type 21, 21D, 30, 31 and 32 Standards, unless otherwise specified. LED luminaires shall be 165 W when installed on other type standards or poles, unless otherwise specified.
3. Luminaires shall be the cutoff type, ANSI Type III medium cutoff lighting distribution, unless otherwise specified.

STANDARD ELECTROLIER

NEW	EXISTING	STANDARD TYPE
		15
		15D
		15 STRUCTURE
		15D STRUCTURE
		21
		21D
		21 STRUCTURE
		21D STRUCTURE
		30
		31
		32

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

ELECTRICAL SYSTEMS (LEGEND AND ABBREVIATIONS)

NO SCALE

RSP ES-1A DATED JULY 19, 2013 SUPERSEDES STANDARD PLAN ES-1A DATED MAY 20, 2011 - PAGE 425 OF THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP ES-1A

2010 REVISED STANDARD PLAN RSP ES-1A

7-15-13

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	SB	1,101, 192,246	Var	61	66

Theresa Gabriel
REGISTERED ELECTRICAL ENGINEER

July 19, 2013
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER Theresa Aziz Gabriel No. E15129 Exp. 6-30-14 ELECTRICAL STATE OF CALIFORNIA

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TO ACCOMPANY PLANS DATED 5-27-14

CONDUIT

NEW	EXISTING	
		LIGHTING CONDUIT, UNLESS OTHERWISE INDICATED OR NOTED
		TRAFFIC SIGNAL CONDUIT
C	c	COMMUNICATION CONDUIT
T	t	TELEPHONE CONDUIT
F	f	FIRE ALARM CONDUIT
FO	fo	FIBER OPTIC CONDUIT
		CONDUIT TERMINATION
R	r	CONDUIT RISER ATTACHED TO THE STRUCTURE OR SERVICE POLE

SERVICE EQUIPMENT

NEW	EXISTING	
OH	oh	OVERHEAD LINES
U	U	WOOD POLE, "U" INDICATES UTILITY OWNED
		POLE GUY WITH ANCHOR
		UTILITY TRANSFORMER - GROUND MOUNTED
III	III	SERVICE EQUIPMENT ENCLOSURE TYPE. DOOR INDICATES FRONT OF ENCLOSURE
T	t	TELEPHONE DEMARCATION CABINET

POLE-MOUNTED SERVICE DESIGNATION

TYPE H SERVICE, 28'-10" — TYPE OF INSTALLATION AND POLE HEIGHT ABOVE GRADE

FLASHING BEACON

NEW	EXISTING	
R	R	FLASHING BEACON (ONE VEHICLE SIGNAL HEAD WITH BACKPLATE AND VISOR) "R" INDICATES RED INDICATION, "Y" INDICATES YELLOW INDICATION
Y Y	Y Y	FLASHING BEACON WITH TYPE 15-FBS STANDARD AND A SIGN.
R R	R R	FLASHING BEACON WITH TYPES 9, 9A OR 9B SIGN UNLESS OTHERWISE SPECIFIED OR INDICATED

SIGNAL EQUIPMENT

NEW	EXISTING	
C	C	PEDESTRIAN SIGNAL HEAD "C" INDICATES COUNTDOWN PEDESTRIAN HEAD
		PUSH BUTTON ASSEMBLY POST
		PEDESTRIAN BARRICADE
		VEHICLE SIGNAL HEAD (WITH BACKPLATE AND 3-SECTIONS: RED, YELLOW AND GREEN)
		VEHICLE SIGNAL HEAD WITH ANGLE VISOR
PV	PV	MODIFICATIONS OF BASIC SYMBOL: "L" INDICATES ALL NON-ARROW SECTIONS LOUVERED "LG" INDICATES LOUVERED GREEN SECTION ONLY "PV" INDICATES ALL 12" SECTIONS PROGRAMMED VISIBILITY "8" INDICATES ALL 8" SECTIONS (ONLY WHEN SPECIFIED)
		VEHICLE SIGNAL HEAD CONSISTING OF RED, YELLOW AND GREEN LEFT ARROW SECTIONS
		VEHICLE SIGNAL HEAD CONSISTING OF RED AND YELLOW SECTIONS WITH AN UP GREEN ARROW SECTION
		VEHICLE SIGNAL HEAD (5 SECTION) CONSISTING OF RED, YELLOW AND GREEN SECTIONS WITH YELLOW AND GREEN RIGHT ARROW SECTIONS
		TYPE 15TS STANDARD WITH VEHICLE SIGNAL HEAD AND LUMINAIRE
		TYPE 21TS STANDARD WITH VEHICLE SIGNAL HEAD AND LUMINAIRE
		STANDARD WITH LUMINAIRE AND SIGNAL MAST ARMS AND ATTACHED VEHICLE SIGNAL HEADS
		TYPE 1 STANDARD WITH ATTACHED VEHICLE SIGNAL HEADS
		STANDARD WITH A SIGNAL MAST ARM, ATTACHED VEHICLE SIGNAL HEADS AND INTERNALLY ILLUMINATED STREET NAME SIGN
		CONTROLLER ASSEMBLY. DOOR INDICATES FRONT OF CABINET

SIGNAL EQUIPMENT Cont

NEW	EXISTING	
		GUARD POST
		TYPE 1 STANDARD WITH RAMP METERING SIGN
		OPTICAL DETECTOR FOR THE EMERGENCY VEHICLE DETECTION SYSTEM

NOTES:

1. All signal sections shall be 12" unless shown otherwise.
2. Signal heads shall be provided with backplates unless shown otherwise.

ILLUMINATED OVERHEAD SIGN

NEW	EXISTING	
		SINGLE POST, SINGLE ILLUMINATED SIGN, BALANCED BUTTERFLY
		SINGLE POST, DOUBLE ILLUMINATED SIGN, BALANCED BUTTERFLY
		SINGLE POST, SINGLE ILLUMINATED SIGN, FULL CANTILEVER
		DOUBLE POST, SINGLE ILLUMINATED SIGN
		SINGLE ILLUMINATED SIGN MOUNTED ON STRUCTURE
		DOUBLE POST, SINGLE ILLUMINATED SIGN WITH ELECTROLIER

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

ELECTRICAL SYSTEMS (LEGEND AND ABBREVIATIONS)

NO SCALE

RSP ES-1B DATED JULY 19, 2013 SUPERSEDES STANDARD PLAN ES-1B DATED MAY 20, 2011 - PAGE 426 OF THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP ES-1B

2010 REVISED STANDARD PLAN RSP ES-1B

7-15-13

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	SB	1,101, 192,246	Var	62	66

Theresa Gabriel
REGISTERED ELECTRICAL ENGINEER

July 19, 2013
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
Theresa Aziz Gabriel
No. E15129
Exp. 6-30-14
ELECTRICAL
STATE OF CALIFORNIA

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

TO ACCOMPANY PLANS DATED 5-27-14

EQUIPMENT IDENTIFICATION

ILLUMINATED SIGN IDENTIFICATION NUMBER:

SIGN No. 12345

10 ISL SCI 1.0

- SIGN NUMBER - PLACE ON POST OR STRUCTURE
- TRANSFORMER RATING (kVA)
- LIGHTING CONTROL TYPE
- NUMBER AND TYPE OF FIXTURES

DO NOT PLACE ON STANDARD OR STRUCTURE

ELECTROLIER OR EQUIPMENT IDENTIFICATION NUMBER:

12345 - 15'-0"

- MAST ARM LENGTH, IF SHOWN. DO NOT PLACE ON STANDARD OR STRUCTURE
- EQUIPMENT NUMBER - PLACE ON STANDARD OR STRUCTURE. EXISTING EQUIPMENT NUMBERS ARE SHOWN IN PARENTHESIS

CONDUIT AND CONDUCTOR IDENTIFICATION:

1½"C, 2#10, 15#14, 2 DLC, 12P#18

- PAIR
- NUMBER AND SIZE OF CONDUCTORS AND CABLES
- SIZE OF CONDUIT IN INCHES

ø1, ø2, ø2P, etc.	TRAFFIC PHASE IDENTIFICATION FOR SIGNAL FACES, DETECTORS AND PHASE DIAGRAMS
1 2 3	LEGEND NUMBERS
A B C	EQUIPMENT, SIGNAL POLES, INSTALLATION OR ITEMS
1 2 3	CONDUIT RUN NUMBERS

SIGNAL AND LIGHTING STANDARD (TYPICAL DESIGNATION):

19A - 3 - 100

- WIND VELOCITY = 100 mph
- CASE 3 ARM LOADING
- STANDARD TYPE
- STANDARD PLAN SHEET NUMBER
- DETAIL, NUMBER, SECTION, TYPE OR ELEVATION

MISCELLANEOUS EQUIPMENT

NEW	EXISTING	
CMS	cms	CHANGEABLE MESSAGE SIGN
		CLOSED CIRCUIT TELEVISION CAMERA
		HIGHWAY ADVISORY RADIO POLE AND ANTENNA
EMS	ems	EXTINGUISHABLE MESSAGE SIGN
M V	m v	DETECTION DEVICE M = MICROWAVE SENSOR V = VIDEO IMAGE SENSOR

WIRING DIAGRAM LEGEND

- EXTERNAL CONDUCTOR
- CONDUCTOR OR BUS
- TIE POINT
- CONTACTOR COIL
- CONTACTOR, NO CONTACT
- TERMINAL BLOCKS
- CONTACTOR, NC CONTACT
- ENCLOSURE BOND
- GROUNDING ELECTRODE
- CIRCUIT BREAKER
- RECEPTACLE

PULL BOXES

NEW	EXISTING	
		PULL BOX, No. 5 UNLESS OTHERWISE INDICATED OR NOTED
3	9A(21)	PULL BOX, ADDITIONAL DESIGNATIONS OR DESCRIPTIONS

3 No. 3½ PULL BOX
5 No. 5 PULL BOX
6 No. 6 PULL BOX
7 No. 7 (CEILING PULL BOX)
8 No. 8 (PENDANT SOFFIT PULL BOX)
9 No. 9 PULL BOX
9A No. 9A PULL BOX

(C) COMMUNICATIONS PULL BOX
(E) PULL BOX WITH EXTENSION
(S) SPRINKLER CONTROL PULL BOX
(21) ANCHOR BOLTS AND CONDUIT FOR FUTURE INSTALLATION OF TYPE 21 STANDARD
(T) TRAFFIC PULL BOX

VEHICLE DETECTORS

5 J 9 U

- VEHICLE DETECTOR DESIGNATION
- U = UPPER
  L = LOWER
- SLOT NUMBER IN INPUT FILE
- INPUT FILE (I OR J)
- PHASE

NEW	EXISTING	
		TYPE A DETECTOR LOOP. OUTLINE OF SAWCUT SHOWN
		TYPE B DETECTOR LOOP. OUTLINE OF SAWCUT SHOWN
		TYPE C DETECTOR LOOP. OUTLINE OF SAWCUT SHOWN
		TYPE D DETECTOR LOOP. OUTLINE OF SAWCUT SHOWN
		TYPE E DETECTOR LOOP. OUTLINE OF SAWCUT SHOWN
		TYPE Q DETECTOR LOOP. OUTLINE OF SAWCUT SHOWN
		MAGNETIC DETECTOR
DH	dh	DETECTOR HANDHOLE
		MICROWAVE OR VIDEO DETECTION ZONE

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

ELECTRICAL SYSTEMS (LEGEND AND ABBREVIATIONS)

NO SCALE

RSP ES-1C DATED JULY 19, 2013 SUPERSEDES STANDARD PLAN ES-1C DATED MAY 20, 2011 - PAGE 427 OF THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP ES-1C

2010 REVISED STANDARD PLAN RSP ES-1C

7-11-13

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	SB	1,101, 192,246	Var	63	66

Theresa Gabriel
REGISTERED ELECTRICAL ENGINEER

July 19, 2013
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
Theresa Aziz Gabriel
No. E15129
Exp. 6-30-14
ELECTRICAL
STATE OF CALIFORNIA

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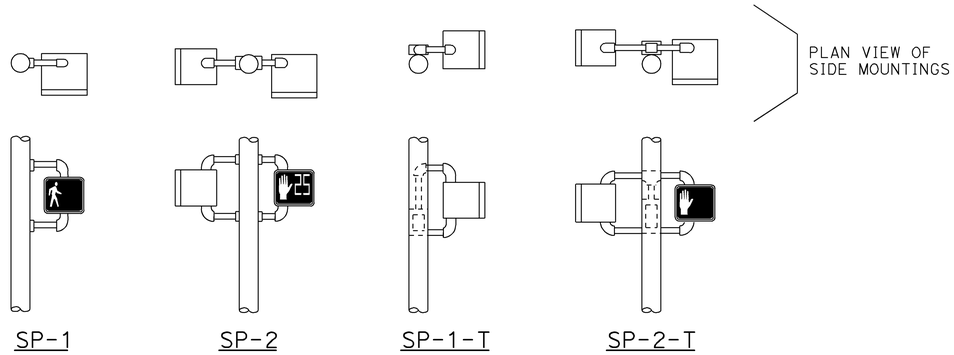
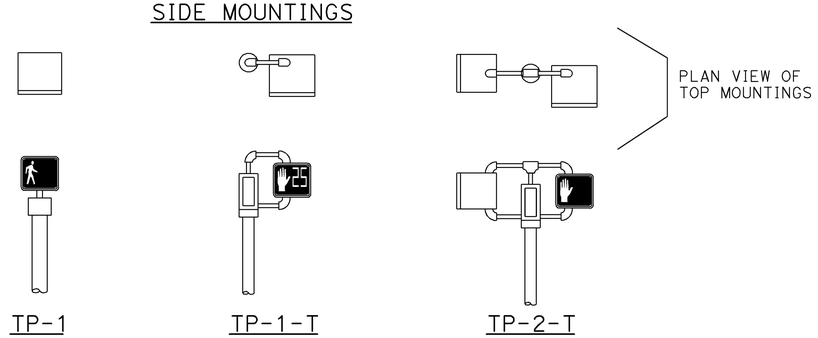
TO ACCOMPANY PLANS DATED 5-27-14



SIDE MOUNTINGS



TOP MOUNTINGS

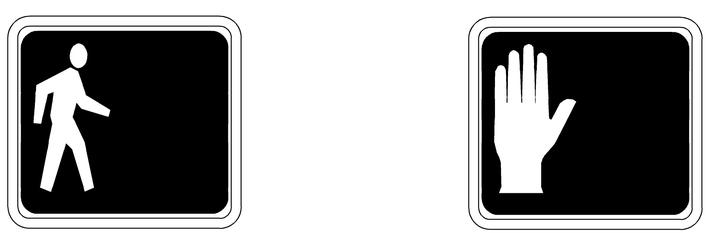
PEDESTRIAN SIGNALS AND MOUNTINGS

DETAIL A

PERSON WALKING INTERVAL FLASHING UPRAISED HAND INTERVAL STEADY UPRAISED HAND INTERVAL

PEDESTRIAN SIGNAL MODULE WITH COUNTDOWN

DETAIL B



PERSON WALKING INTERVAL STEADY UPRAISED HAND INTERVAL

PEDESTRIAN SIGNAL MODULE WITHOUT COUNTDOWN

DETAIL C

NOTES:

1. Mounting shall be oriented to provide maximum horizontal clearance to adjacent roadway.
2. Bracket arms shall be long enough to permit proper alignment of signals.
3. See Standard Plan ES-4D for attachment fittings details.

ABBREVIATIONS:

1, 2	NUMBER OF SIGNAL FACES
SP	SIDE MOUNTED PEDESTRIAN SIGNAL
T	TERMINAL COMPARTMENT
TP	TOP MOUNTED PEDESTRIAN SIGNAL

RAMP METERING SIGN

DETAIL D

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

ELECTRICAL SYSTEMS (PEDESTRIAN SIGNAL AND RAMP METERING SIGN)

NO SCALE

RSP ES-4B DATED JULY 19, 2013 SUPERSEDES STANDARD PLAN ES-4B DATED MAY 20, 2011 - PAGE 444 OF THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP ES-4B

2010 REVISED STANDARD PLAN RSP ES-4B

7-9-13

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	SB	1,101, 192,246	Var	64	66

Theresa Gabriel
REGISTERED ELECTRICAL ENGINEER

July 19, 2013
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
Theresa Aziz Gabriel
No. E15129
Exp. 6-30-14
ELECTRICAL
STATE OF CALIFORNIA

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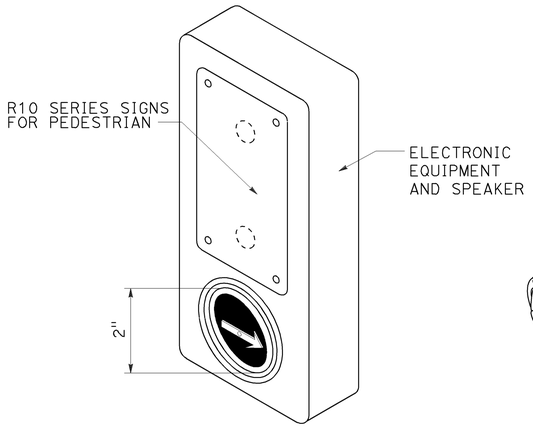
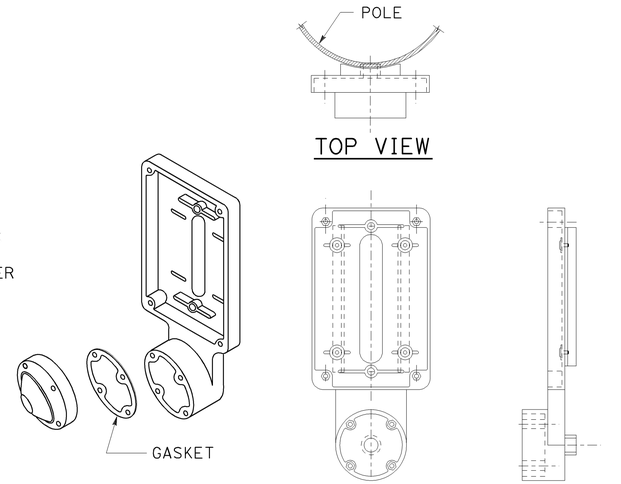
TO ACCOMPANY PLANS DATED 5-27-14

2010 REVISED STANDARD PLAN RSP ES-5C



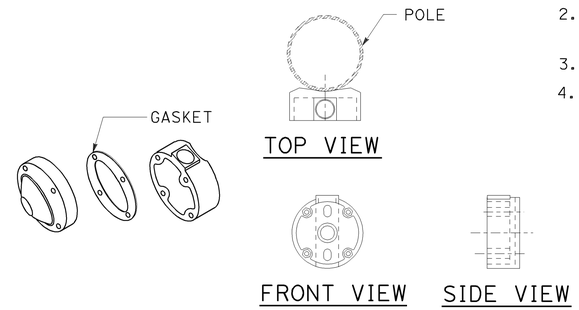
ACCESSIBLE PEDESTRIAN SIGNAL

DETAIL A
(See note 1 to 4)



TYPE B PUSH BUTTON ASSEMBLY

DETAIL B
(See note 1 to 4)

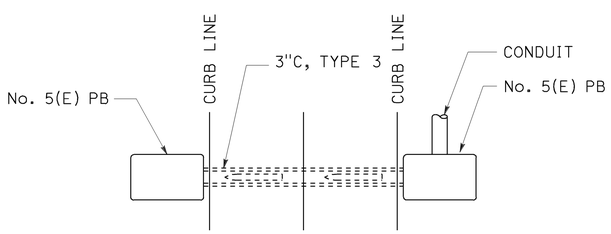


TYPE C PUSH BUTTON ASSEMBLY

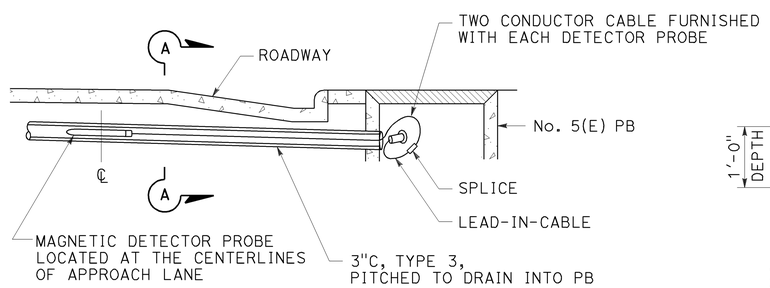
DETAIL C
(See note 1 to 4)

NOTES:

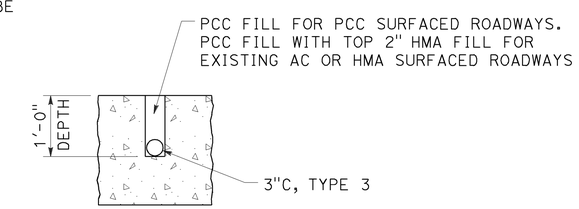
1. Back casting shape to fit curvature of pole.
2. Provide cover fitting for top of post, when PBA is mounted on push button assembly post.
3. Install push button on crosswalk side of standard.
4. Use R10 series regulatory signs and plaques for pedestrian and bicycle facilities.



PLAN



ELEVATION



SECTION A-A

MAGNETIC VEHICLE DETECTOR INSTALLATION DETAILS

DETAIL D

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

ELECTRICAL SYSTEMS (ACCESSIBLE PEDESTRIAN SIGNAL, PUSH BUTTON ASSEMBLIES AND MAGNETIC VEHICLE DETECTOR)

NO SCALE

RSP ES-5C DATED JULY 19, 2013 SUPERSEDES STANDARD PLAN ES-5C DATED MAY 20, 2011 - PAGE 450 OF THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP ES-5C

7-9-13

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	SB	1,101, 192,246	Var	65	66

REGISTERED CIVIL ENGINEER

July 19, 2013
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
Stanley P. Johnson
No. C57793
Exp. 3-31-14
CIVIL
STATE OF CALIFORNIA

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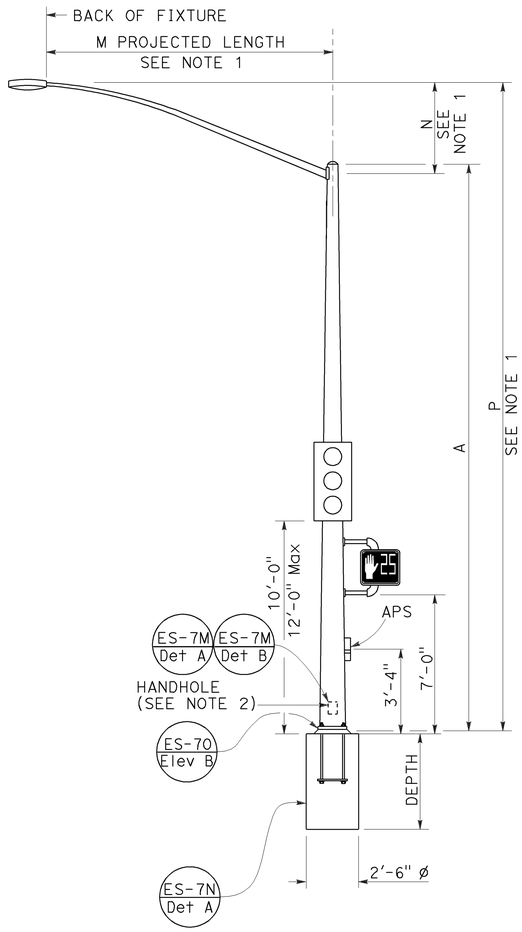
TO ACCOMPANY PLANS DATED 5-27-14

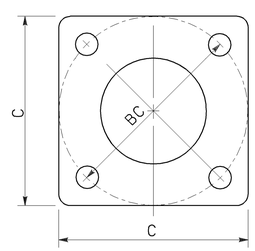
2010 REVISED STANDARD PLAN RSP ES-7A

NOTES:

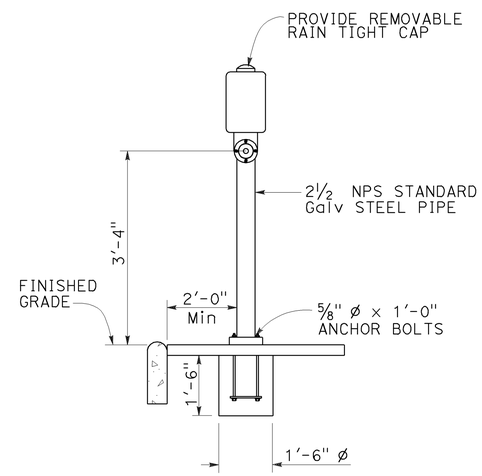
1. For additional notes, details and data for Type 15TS and Type 21TS Standards, see Standard Plan ES-6A.
2. Handhole shall be located on the downstream side of traffic.



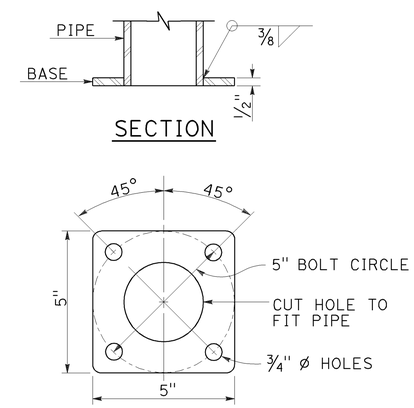
TYPE 15TS AND 21TS STANDARD
ELEVATION A
(See Note 1)



BASE PLATE
TYPE 15TS AND 21TS
DETAIL A

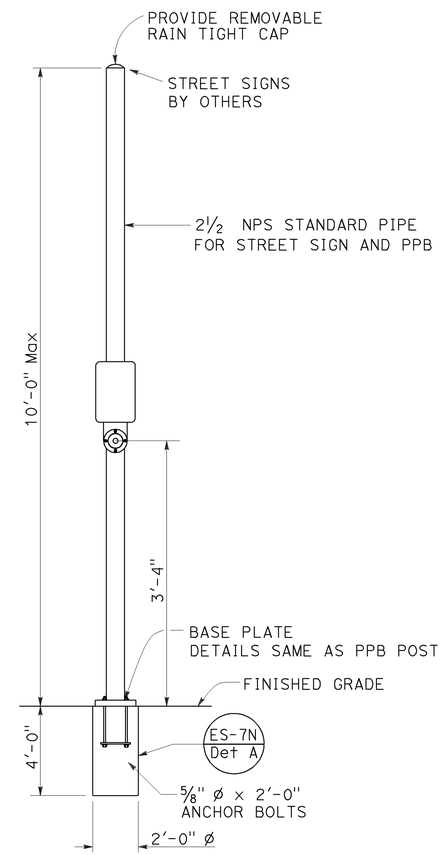


ELEVATION



BASE PLATE
PBA POST

PUSH BUTTON ASSEMBLY POST
DETAIL B



COMBINED STREET SIGN
PUSH BUTTON ASSEMBLY POST
DETAIL C

POLE TYPE	POLE DATA				BASE PLATE DATA				CIDH
	A HEIGHT	Min OD BASE	Min OD TOP	WALL THICKNESS	C	BC = BOLT CIRCLE	THICKNESS	ANCHOR BOLT SIZE	DEPTH
15TS	30'-0"	8"	3 11/16"	0.1793"	1'-1½"	1'-0"	2"	1½" ø x 42"	7'-6"
21TS	35'-0"	9⅜"	3 9/16"		1'-3"	1'-2"			8'-6"

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

ELECTRICAL SYSTEMS (SIGNAL AND LIGHTING STANDARD, TYPE TS, AND PUSH BUTTON ASSEMBLY POST)

NO SCALE

RSP ES-7A DATED JULY 19, 2013 SUPERSEDES STANDARD PLAN ES-7A DATED MAY 20, 2011 - PAGE 462 OF THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP ES-7A

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
05	SB	1,101, 192,246	Var	66	66

Theresa Gabriel
REGISTERED ELECTRICAL ENGINEER

July 19, 2013
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER Theresa Aziz Gabriel No. E15129 Exp. 6-30-14 ELECTRICAL STATE OF CALIFORNIA

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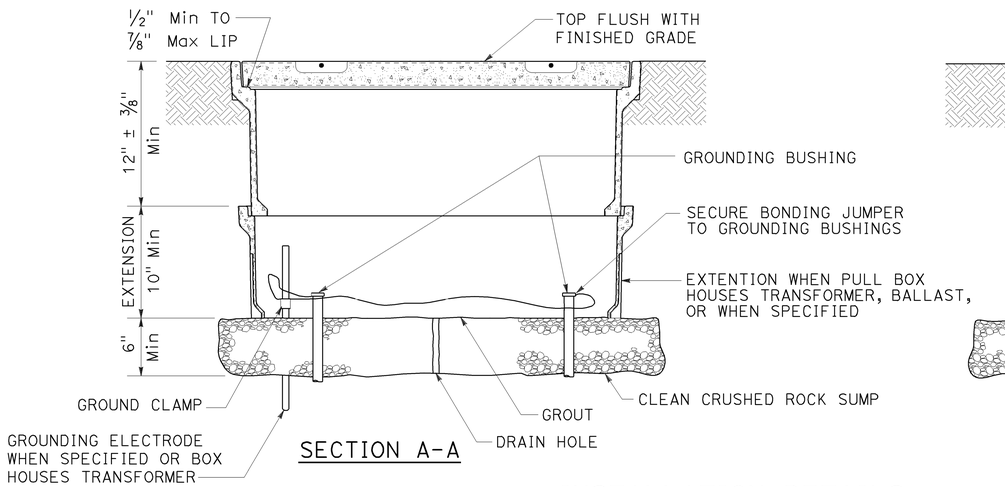
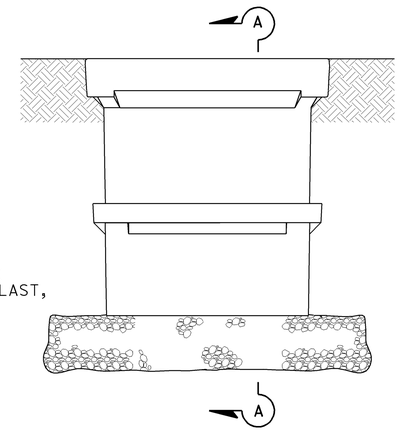
TO ACCOMPANY PLANS DATED 5-27-14



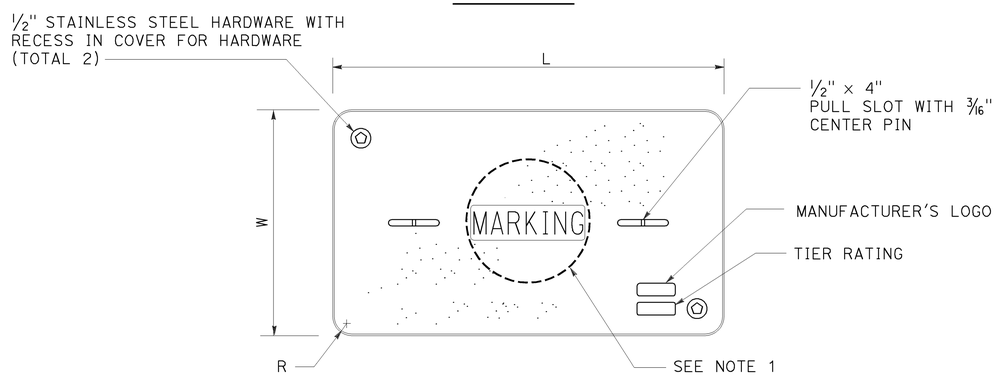
SECTION A-A



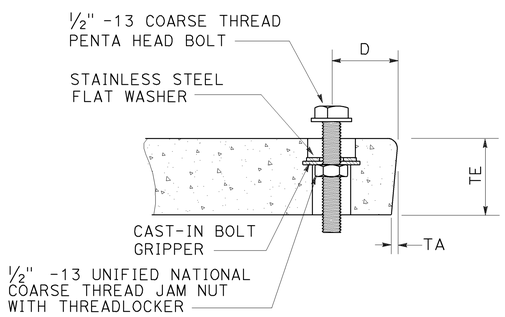
SIDE VIEW

INSTALLATION DETAILS

DETAIL A

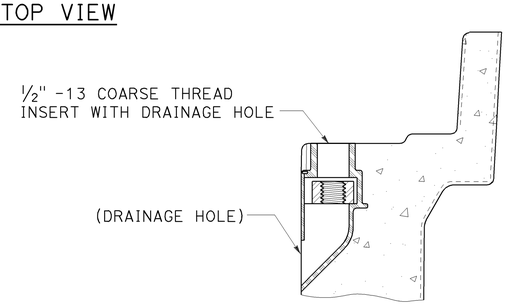


COVER TOP VIEW



TYPICAL COVER CAPTIVE BOLT

OR SIMILAR



TYPICAL THREADED INSERT

OR SIMILAR

DIMENSION TABLE										
PULL BOX	PULL BOX			COVER						
	MINIMUM DEPTH BOX	MINIMUM DEPTH EXTENSION	MAXIMUM WEIGHT	L	W	R	TE	TA	D	MAXIMUM WEIGHT
No. 3½	12"	N/A	40 lb	1′ - 3⅜"	10⅛"	1⅜"	2"	⅛"	1¾"	30 lb
No. 5	12"	10"	55 lb	1′ - 11¼"	1′ - 1¾"	1⅜"	2"	⅛"	1¾"	60 lb
No. 6	12"	10"	70 lb	2′ - 6½"	1′ - 5½"	1⅜"	2"	⅛"	2"	85 lb

NOTES:

1. Pull box covers shall be marked as follows: "SERVICE" Service circuits between service point and service disconnect; "SPRINKLER-CONTROL" sprinkler control circuits, 50 V or less; "CALTRANS" on all pull boxes, except pull boxes marked "SPRINKLER-CONTROL"; and "TELEPHONE" Telephone service;
   - A) No. 3½ pull box.
     - 1) "SIGNAL" - Traffic signal circuits with or without lighting or sign lighting circuits.
     - 2) "LIGHTING" - Lighting or sign lighting circuits where voltage is under 600 V.
   - B) No. 5, 6, 9 or 9A pull box.
     - 1) "TRAFFIC SIGNAL" - Traffic signal circuits with or without lighting or sign lighting circuits.
     - 2) "LIGHTING" - Lighting or sign lighting circuits where voltage is under 600 V.
     - 3) "LIGHTING-HIGH VOLTAGE" - Lighting or sign lighting circuits where voltage is above 600 V.
     - 4) "IRRIGATION" - Circuits to irrigation controller 120 V or more.
     - 5) "RAMP METER" - Ramp meter circuits.
     - 6) "COUNT STATION" - Count or speed monitor circuits.
     - 7) "COMMUNICATIONS" - Communication circuits.
     - 8) "TOS COMMUNICATIONS" - TOS communication line.
     - 9) "TOS POWER" - TOS power.
     - 10) "TDC POWER" - Telephone demarcation cabinet power.
     - 11) "CCTV" - Closed circuit television circuits.
     - 12) "TMS" - Traffic monitoring station circuits.
     - 13) "CMS" - Changeable message sign circuits.
     - 14) "HAR" - Highway advisory radio circuits.
     - 15) "BOOSTER PUMP" - Booster pump circuit.
2. The nominal dimensions of the opening in which the cover sets shall be the same as the cover dimensions except the length and width dimensions shall be ⅛" greater.
3. Covers and boxes shall be interchangeable with California standard male and female gages. When interchanged with a standard male or female gage, the top surfaces shall be flush within ⅛". Top outside radius of covers and pull boxes shall have a ⅛" radius.
4. Pull box extension may be another pull box as long as the bottom edge of the pull box can fit into the cover opening.
5. All dimensions for the cover for non-traffic pull box are nominal values.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

ELECTRICAL SYSTEMS (NON-TRAFFIC PULL BOX)

NO SCALE

RSP ES-8A DATED JULY 19, 2013 SUPERSEDES RSP ES-8A DATED JANUARY 20, 2012 THAT SUPPLEMENTS THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP ES-8A

2010 REVISED STANDARD PLAN RSP ES-8A

7-15-13